01/09/2024	Kit Components	
Product code	Description	
V1690	PI3K-Glo <sup>™</sup> Class I Profiling Kit	
Components:		
V172	PI3K (p110a/p85a)	
V173	PI3K (p110a(E545K)/p85a)	
V174	PI3K (p110a(H1047R)/p85a)	
V175	PI3K (p110b/p85a)	
V176	PI3K (p120g)	
V177	PI3K (p110d/p85a)	
V169	PI3K Reaction Buffer, 5X	
V330	MgCl2, 1M	
V170	PIP2:3PS Substrate	
V180	Lipid Dilution Buffer, 10X	
V912	ADP-Glo <sup>™</sup> Reagent	
V913	Kinase Detection Buffer	
V914A	Kinase Detection Substrate, (2ml)	
V915	Ultra Pure ATP, 10mM	
V916	ADP, 10mM	



#### Printing date 01/09/2024

Reviewed on 01/07/2024

### 1 Identification

Product identifier Trade name: <u>PI3K (p110a/p85a)</u> Article number: V172 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

#### 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 1*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 1 Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): May cause Kidney damage (Nephrotoxin) **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/8

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110a/p85a)

(Contd. of page 1)

#### 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

#### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components:

56-81-5 glycerol

25-50%

## Additional information: For the wording of the listed risk phrases refer to section 15.

#### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

*After skin contact: Generally the product does not irritate the skin.* 

*After eye contact:* Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

*CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture* 

None known

No further relevant information available.

Advice for firefighters No special advice.

Protective equipment: No special measures required.

#### 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Not required.

 Environmental precautions:

 Dilute with plenty of water.

 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:

 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

 Reference to other sections

 No dangerous substances are released.

 See Section 7 for information on safe handling.

 See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110a/p85a)

(Contd. of page 2)

#### 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Do not store below -20°C. Protected from light. Information about storage in one common storage facility: Not required. Further information about storage conditions: None.

*Specific end use(s)* No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

#### 56-81-5 glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup> mist; \*total dust \*\*respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

Additional information: The lists that were valid during the creation were used as basis.

#### **Exposure** controls

#### Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

#### Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

#### Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

#### 9 Physical and chemical properties

ical and chemical properties	
Fluid	
Colorless	
Not determined	
	Fluid Colorless

(Contd. on page 4)

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p110a/p85a)

	(Contd. of	page
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	8	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	160 °C (320 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto igniting:	400 °C (752 °F)	
<b>Decomposition temperature:</b>	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	0.9 Vol %	
Upper:	0.0 Vol %	
Vapor pressure at 20 °C (68 °F):	0.1 hPa	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent separation test		
Organic solvents:	50.0 %	
Water:	48.6 %	
VOC content:	0.00 %	
Solids content:	0.9 %	
Other information	No further relevant information available.	

## **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)

Printing date 01/09/2024

Reviewed on 01/07/2024

## Trade name: PI3K (p110a/p85a)

(Contd. of page 4)

Information on toxicological effects Acute toxicity: LDJC.CS0 values that are relevant for classification: 56-81-5 glycerol Oral [LD50] 1,200 mg/kg (Rat) Primary irritant effect: on the skin: No irritant effect. on the skin: No irritant effect. Sensitization: In case of skin contact: not sensitising In case of skin contact: not sensitising In case of inhalation: not sensitising Additional toxicological information: The product is not subject to classification according to internally approved calculation method preparations: Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients are listed. NTP (National Toxicology Program) None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients are listed. 2 Ecological information Zacity Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not wavailable Bioaccumulative potential Not further relevant information available. Bioaccumulative potential Not further relevant information available. Bioaccumulative potential Not further relevant information available. Bioaccumulative potential Not further relevant information available. Ecotoxicological effects: Remark: Not available		Toxicological information
LD/LC50 values that are relevant for classification:         56-81-5 glycerol         Oral [LD50] [1,200 mg/kg (Rat)         Primary irritant effect:         on the skin: No irritant effect.         on the eye: No irritating effect.         Sensitization:         In case of skin contact: not sensitising         Additional toxicological information:         The product is not subject to classification according to internally approved calculation method         preparations:         Carcinogenic categories         LARC (International Agency for Research on Cancer)         None of the ingredients are listed.         NTP (National Toxicology Program)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         Zecological information         Vone of the ingredients are listed.         Zecological information         None of the ingredients are listed.         Zecological information         Not known		
56-81-5 glycerol         Oral LD50 [1,200 mg/kg (Rat)         Primary irritant effect:         on the skin: No irritant effect.         on the seve: No irritating effect.         Sensitization:         In case of skin contact: not sensitising         Additional toxicological information:         The product is not subject to classification according to internally approved calculation method preparations:         Carcinogenic categories         IARC (International Agency for Research on Cancer)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         Ostia-Ca information         Z Ecological information         Persistence and degradability         Not available         No further relevant information available.         Bioaccumulative potential         Not known         No further relevant information available.         Mobility in soil No further relevant information available.         Bioaccumulative potential         Not known		•
Oral (155)       1,200 mg/kg (Rat)         Primary irritant effect:       on the skin: No irritant effect.         on the skin: No irritant effect.       Sensitization:         In case of skin contact: not sensitising       In case of inhalation: not sensitising         Additional toxicological information:       The product is not subject to classification according to internally approved calculation method preparations:         Carcinogenic categories       IARC (International Agency for Research on Cancer)         None of the ingredients are listed.       NTP (National Toxicology Program)         None of the ingredients are listed.       OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.       Proxicity         Aquatic toxicity: Not harmful to the aquatic environment       Persistence and degradability         Not available       No further relevant information available.         Bioaccumulative potential       Nof known         No further relevant information available.       Bioaccumulative potential         Not known       No further relevant information available.		
Primary irritant effect:         on the skin: No irritant effect.         on the eye: No irritating effect.         Sensitization:         In case of skin contact: not sensitising         Additional toxicological information:         The product is not subject to classification according to internally approved calculation method preparations:         Carcinogenic categories         IARC (International Agency for Research on Cancer)         None of the ingredients are listed.         NTP (National Toxicology Program)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         Zecological information         You available         No available         No available         No trivicity         Not write the relevant information available.         Bioaccumulative potential         Not known         No further relevant information available.         Mobility in soil No further relevant information available.         Mobility in soil No further relevant information available.		
on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: In case of skin contact: not sensitising In case of inhalation: not sensitising Additional toxicological information: The product is not subject to classification according to internally approved calculation method preparations: Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients are listed. NTP (National Toxicology Program) None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients are listed. 2 Ecological information Toxicity Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. Bioaccumulative potential Not known No further relevant information available. Mobility in soil No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects:		
on the eye: No irritating effect. Sensitization: In case of skin contact: not sensitising Additional toxicological information: The product is not subject to classification according to internally approved calculation method preparations: Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients are listed. NTP (National Toxicology Program) None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients are listed. Zecological information Voe of the ingredients are listed. Zecological information Persistence and degradability Not available No further relevant information available. Bioaccumulative potential Not known No further relevant information available. Mobility in soil No further relevant information available.		
Sensitization: In case of skin contact: not sensitising In case of inhalation: not sensitising Additional toxicological information: The product is not subject to classification according to internally approved calculation method preparations: Carcinogenic categories LARC (International Agency for Research on Cancer) None of the ingredients are listed. NTP (National Toxicology Program) None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients are listed. 2 Ecological information Toxicity Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. Bioaccumulative potential Not known No further relevant information available. Mobility in soil No further relevant information available.		
In case of skin contact: not sensitising In case of inhalation: not sensitising Additional toxicological information: The product is not subject to classification according to internally approved calculation method preparations: Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients are listed. NTP (National Toxicology Program) None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients are listed. Zecological information None of the ingredients are listed. Zecological information None of the ingredients are listed. Zecological information None of the ingredients are listed. Zecological information Not available No further relevant information available. Bioaccumulative potential Not known No further relevant information available. Mobility in soil No further relevant information available.		
In case of inhalation: not sensitising Additional toxicological information: The product is not subject to classification according to internally approved calculation method preparations: Carcinogenic categories IARC (International Agency for Research on Cancer) None of the ingredients are listed. NTP (National Toxicology Program) None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients are listed. 2 Ecological information Toxicity Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. Bioaccumulative potential Not known No further relevant information available. Mobility in soil No further relevant information available.		
Additional toxicological information:         The product is not subject to classification according to internally approved calculation method preparations:         Carcinogenic categories         IARC (International Agency for Research on Cancer)         None of the ingredients are listed.         NTP (National Toxicology Program)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         Ostication         Zecological information         Persistence and degradability         Not available         No further relevant information available.         Bioaccumulative potential         Not known         No further relevant information available.         Mobility in soil No further relevant information available.         Mobility in soil No further relevant information available.         Ecotoxicological effects:		
preparations:       Carcinogenic categories         IARC (International Agency for Research on Cancer)       None of the ingredients are listed.         NTP (National Toxicology Program)       None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)       None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)       None of the ingredients are listed.         2       Ecological information         None of the ingredients are listed.       Persistence and degradability         Not available       No further relevant information available.         Bioaccumulative potential       No further relevant information available.         No further relevant information available.       Mobility in soil No further relevant information available.         Kotoxicological effects:       Ecotoxicological effects:		
Carcinogenic categories         IARC (International Agency for Research on Cancer)         None of the ingredients are listed.         NTP (National Toxicology Program)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         Carcological information         Zecological information         Persistence and degradability         Not available         No further relevant information available.         Bioaccumulative potential         Not known         No further relevant information available.         Mobility in soil No further relevant information available.         Mobility in soil No further relevant information available.	1	The product is not subject to classification according to internally approved calculation method
IARC (International Agency for Research on Cancer)         None of the ingredients are listed.         NTP (National Toxicology Program)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         Zecological information         Toxicity         Aquatic toxicity: Not harmful to the aquatic environment         Persistence and degradability         Not available         No further relevant information available.         Bioaccumulative potential         Not known         No further relevant information available.         Mobility in soil No further relevant information available.         Mobility in soil No further relevant information available.	р	preparations:
None of the ingredients are listed.         NTP (National Toxicology Program)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         2 Ecological information         Toxicity         Aquatic toxicity: Not harmful to the aquatic environment         Persistence and degradability         Not available         No further relevant information available.         Bioaccumulative potential         Not known         No further relevant information available.         Mobility in soil No further relevant information available.         Mobility in soil No further relevant information available.         Mobility in soil No further relevant information available.	0	Carcinogenic categories
NTP (National Toxicology Program)         None of the ingredients are listed.         OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         2 Ecological information         7 Toxicity         Aquatic toxicity: Not harmful to the aquatic environment         Persistence and degradability         Not available         No further relevant information available.         Bioaccumulative potential         Not known         No further relevant information available.         Mobility in soil No further relevant information available.         Mobility in soil No further relevant information available.         Mobility in soil No further relevant information available.	L	ARC (International Agency for Research on Cancer)
None of the ingredients are listed. OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients are listed. 2 Ecological information Toxicity Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. Bioaccumulative potential Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects:	Ν	None of the ingredients are listed.
OSHA-Ca (Occupational Safety & Health Administration)         None of the ingredients are listed.         2         Cological information         7         7         Presistence and degradability         Not available         No further relevant information available.         Bioaccumulative potential         Not known         No further relevant information available.         Mobility in soil No further relevant information available.         Ecotoxicological effects:	Ι	NTP (National Toxicology Program)
None of the ingredients are listed.  2 Ecological information  Toxicity  Aquatic toxicity: Not harmful to the aquatic environment  Persistence and degradability  Not available  No further relevant information available.  Bioaccumulative potential Not known No further relevant information available.  Mobility in soil No further relevant information available.  Ecotoxicological effects:	Ν	None of the ingredients are listed.
2 Ecological information Toxicity Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. Bioaccumulative potential Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects:	6	DSHA-Ca (Occupational Safety & Health Administration)
ToxicityAquatic toxicity: Not harmful to the aquatic environmentPersistence and degradabilityNot availableNo further relevant information available.Bioaccumulative potentialNot knownNo further relevant information available.Mobility in soil No further relevant information available.Ecotoxicological effects:	Ν	None of the ingredients are listed.
ToxicityAquatic toxicity: Not harmful to the aquatic environmentPersistence and degradabilityNot availableNo further relevant information available.Bioaccumulative potentialNot knownNo further relevant information available.Mobility in soil No further relevant information available.Ecotoxicological effects:		
Aquatic toxicity: Not harmful to the aquatic environmentPersistence and degradabilityNot availableNo further relevant information available.Bioaccumulative potentialNot knownNo further relevant information available.Mobility in soil No further relevant information available.Ecotoxicological effects:	2 I	Ecological information
Persistence and degradability         Not available         No further relevant information available.         Bioaccumulative potential         Not known         No further relevant information available.         Mobility in soil No further relevant information available.         Ecotoxicological effects:	1	<i>Foxicity</i>
Not available No further relevant information available. <b>Bioaccumulative potential</b> Not known No further relevant information available. <b>Mobility in soil</b> No further relevant information available. <b>Ecotoxicological effects:</b>	A	<i>Iquatic toxicity:</i> Not harmful to the aquatic environment
No further relevant information available. <b>Bioaccumulative potential</b> Not known No further relevant information available. <b>Mobility in soil</b> No further relevant information available. <b>Ecotoxicological effects:</b>		
Bioaccumulative potential Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects:		
Not known No further relevant information available. <b>Mobility in soil</b> No further relevant information available. <b>Ecotoxicological effects:</b>		
No further relevant information available. <b>Mobility in soil</b> No further relevant information available. <b>Ecotoxicological effects:</b>		
Mobility in soil No further relevant information available. Ecotoxicological effects:		
Ecotoxicological effects:		
Cananal notes. Not known to be hazardous to water		

General notes: Not known to be hazardous to water.

**Results of PBT and vPvB assessment PBT:** Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

(Contd. on page 6)

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p110a/p85a)

(Contd. of page 5)

### **13 Disposal considerations**

#### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	<i>Not applicable</i>	

#### **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

56-81-5 glycerol

Hazardous Air Pollutants

None of the ingredients are listed.

(Contd. on page 7)

ACTIVE

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p110a/p85a)

	(Contd. of page 6)
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
New Jersey Right-to-Know List:	
56-81-5 glycerol	
Pennsylvania Right-to-Know List:	
56-81-5 glycerol	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
TLV (Threshold Limit Value)	
None of the ingredients are listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
GHS label elements Not applicable	
Signal word Not applicable	

Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 8)

(Contd. of page 7)

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110a/p85a)

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit



#### Printing date 01/09/2024

Reviewed on 01/07/2024

### 1 Identification

Product identifier Trade name: <u>PI3K (p110a(E545K)/p85a)</u> Article number: V173 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

#### 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 1*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 1 Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): May cause Kidney damage (Nephrotoxin) **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/8

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110a(E545K)/p85a)

(Contd. of page 1)

#### 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

#### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components:

56-81-5 glycerol

25-50%

## Additional information: For the wording of the listed risk phrases refer to section 15.

#### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

*After skin contact: Generally the product does not irritate the skin.* 

*After eye contact:* Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

*CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture* 

None known

No further relevant information available.

Advice for firefighters No special advice.

Protective equipment: No special measures required.

#### 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Not required.

 Environmental precautions:

 Dilute with plenty of water.

 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:

 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

 Reference to other sections

 No dangerous substances are released.

 See Section 7 for information on safe handling.

 See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110a(E545K)/p85a)

(Contd. of page 2)

#### 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Do not store below -20°C. Protected from light. Information about storage in one common storage facility: Not required. Further information about storage conditions: None.

*Specific end use(s)* No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

#### 56-81-5 glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup> mist; \*total dust \*\*respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

Additional information: The lists that were valid during the creation were used as basis.

#### **Exposure** controls

#### Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

#### Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

#### Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

#### 9 Physical and chemical properties

Information on basic ph	vsical and chemical properties
General Information	
Appearance:	
Form:	Fluid
Color:	Colorless
Odor:	Not determined

(Contd. on page 4)

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110a(E545K)/p85a)

	(Contd. of page
Odor threshold:	Not determined.
<i>pH-value at 20 °C (68 °F):</i>	8
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	160 °C (320 °F)
Flammability (solid, gaseous):	Not applicable.
Auto igniting:	400 °C (752 °F)
<b>Decomposition temperature:</b>	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	0.9 Vol %
Upper:	0.0 Vol %
Vapor pressure at 20 °C (68 °F):	0.1 hPa
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent separation test	
Organic solvents:	50.0 %
Water:	48.6 %
VOC content:	0.00 %
Solids content:	0.9 %
Other information	No further relevant information available.

## **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)

Printing date 01/09/2024

\*

\*

Reviewed on 01/07/2024

## Trade name: PI3K (p110a(E545K)/p85a)

(Contd. of page 4)

	Toxicological information
	Information on toxicological effects Acute toxicity:
	LD/LC50 values that are relevant for classification:
	56-81-5 glycerol
	Oral LD50 1,200 mg/kg (Rat)
	Primary irritant effect:
	on the skin: No irritant effect.
	on the eye: No irritating effect.
	Sensitization:
	In case of skin contact: not sensitising In case of inhalation: not sensitising
	Additional toxicological information:
	The product is not subject to classification according to internally approved calculation methods
	preparations:
	Carcinogenic categories
	IARC (International Agency for Research on Cancer)
	None of the ingredients are listed.
	NTP (National Toxicology Program)
	None of the ingredients are listed.
	OSHA-Ca (Occupational Safety & Health Administration)
	None of the ingredients are listed.
_	
2	Ecological information
	Toxicity
	Aquatic toxicity: Not harmful to the aquatic environment
	Persistence and degradability
	Not available
	No further relevant information available.
	Bioaccumulative potential Not known
	No further relevant information available.
	Mobility in soil No further relevant information available.
	Ecotoxicological effects:
	Remark: Not available Additional ecological information:
	General notes: Not known to be hazardous to water.
	Results of PBT and vPvB assessment
	DDT. Not applicable
	PBT: Not applicable. vPvB: Not applicable.

(Contd. on page 6)

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110a(E545K)/p85a)

(Contd. of page 5)

### **13 Disposal considerations**

#### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL 73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	<i>Not applicable</i>	

#### **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

56-81-5 glycerol

Hazardous Air Pollutants

None of the ingredients are listed.

(Contd. on page 7)

ACTIVE

US

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p110a(E545K)/p85a)

	(Contd. of page 6)
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
New Jersey Right-to-Know List:	
56-81-5 glycerol	
Pennsylvania Right-to-Know List:	
56-81-5 glycerol	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
TLV (Threshold Limit Value)	
None of the ingredients are listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
GHS label elements Not applicable	

Signal word Not applicable

Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances

Printing date 01/09/2024

Reviewed on 01/07/2024

(Contd. of page 7)

US

## Trade name: PI3K (p110a(E545K)/p85a)

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit



#### Printing date 01/09/2024

#### Reviewed on 01/09/2024

#### 1 Identification

Product identifier Trade name: <u>PI3K (p110a(H1047R)/p85a)</u> Article number: V174 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

#### 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 1*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 1 Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): May cause Kidney damage (Nephrotoxin) **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/8

Printing date 01/09/2024

Reviewed on 01/09/2024

#### Trade name: PI3K (p110a(H1047R)/p85a)

(Contd. of page 1)

#### 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

#### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components:

56-81-5 glycerol

25-50%

## Additional information: For the wording of the listed risk phrases refer to section 15.

#### 4 First-aid measures

#### Description of first aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

*After skin contact: Generally the product does not irritate the skin.* 

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **5** Fire-fighting measures

#### Extinguishing media

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known No further relevant information available. Advice for firefighters No special advice. Protective equipment: No special measures required.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.
Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/09/2024

#### Trade name: PI3K (p110a(H1047R)/p85a)

(Contd. of page 2)

#### 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Do not store below -20°C. Protected from light. Information about storage in one common storage facility: Not required. Further information about storage conditions: None.

*Specific end use(s)* No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

#### 56-81-5 glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup> mist; \*total dust \*\*respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

Additional information: The lists that were valid during the creation were used as basis.

#### **Exposure** controls

#### Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

#### Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

#### Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

#### 9 Physical and chemical properties

Information on basic ph	vsical and chemical properties	
General Information		
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	

(Contd. on page 4)

US

Printing date 01/09/2024

Reviewed on 01/09/2024

Trade name: PI3K (p110a(H1047R)/p85a)

	(Contd. of page
Odor threshold:	Not determined.
pH-value at 20 °C (68 °F):	8
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	160 °C (320 °F)
Flammability (solid, gaseous):	Not applicable.
Auto igniting:	400 °C (752 °F)
<b>Decomposition temperature:</b>	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	0.9 Vol %
Upper:	0.0 Vol %
Vapor pressure at 20 °C (68 °F):	0.1 hPa
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent separation test	
Organic solvents:	50.0 %
Water:	48.6 %
VOC content:	0.00 %
Solids content:	0.9 %
Other information	No further relevant information available.

## 10 Stability and reactivity

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)

Printing date 01/09/2024

Reviewed on 01/09/2024

## Trade name: PI3K (p110a(H1047R)/p85a)

(Contd. of page 4)

	Toxicological information
	Information on toxicological effects
	Acute toxicity:
	LD/LC50 values that are relevant for classification:
56-81-5 glycerol	
	Oral LD50 1,200 mg/kg (Rat)
	Primary irritant effect:
	on the skin: No irritant effect.
	on the eye: No irritating effect. Sensitization:
	Sensitization: In case of skin contact: not sensitising
	In case of inhalation: not sensitising
	Additional toxicological information:
	The product is not subject to classification according to internally approved calculation methods.
	preparations:
-	Carcinogenic categories
	IARC (International Agency for Research on Cancer)
	None of the ingredients are listed.
	NTP (National Toxicology Program)
	None of the ingredients are listed.
	OSHA-Ca (Occupational Safety & Health Administration)
	None of the ingredients are listed.
_	
2	Ecological information
	Toxicity
	Aquatic toxicity: Not harmful to the aquatic environment
	Persistence and degradability
	Not available
,	No further relevant information available.
	Bioaccumulative potential
	Not known
	No further relevant information available.
	Mobility in soil No further relevant information available.
	Ecotoxicological effects: Remark: Not available

Results of PBT and vPvB assessment

**PBT:** Not applicable.

*vPvB:* Not applicable.

\*

Other adverse effects No further relevant information available.

(Contd. on page 6)

Printing date 01/09/2024

Reviewed on 01/09/2024

#### Trade name: PI3K (p110a(H1047R)/p85a)

(Contd. of page 5)

### **13 Disposal considerations**

#### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	<i>Not applicable</i>	

#### **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

56-81-5 glycerol

Hazardous Air Pollutants

None of the ingredients are listed.

(Contd. on page 7)

ACTIVE

US

Printing date 01/09/2024

Reviewed on 01/09/2024

*Trade name: PI3K (p110a(H1047R)/p85a)* 

(Contd. of page 6)
Proposition 65
Chemicals known to cause cancer:
None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.
Chemicals known to cause developmental toxicity:
None of the ingredients are listed.
New Jersey Right-to-Know List:
56-81-5 glycerol
Pennsylvania Right-to-Know List:
56-81-5 glycerol
Cancerogenity categories
EPA (Environmental Protection Agency)
None of the ingredients are listed.
TLV (Threshold Limit Value)
None of the ingredients are listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients are listed.
GHS label elements Not applicable

Signal word Not applicable

Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

### **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances

Printing date 01/09/2024

Reviewed on 01/09/2024

(Contd. of page 7)

US

## Trade name: PI3K (p110a(H1047R)/p85a)

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit



#### Printing date 01/09/2024

Reviewed on 01/07/2024

#### 1 Identification

Product identifier Trade name: <u>PI3K (p110b/p85a)</u> Article number: V175 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

#### 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 1*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 1 Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): May cause Kidney damage (Nephrotoxin) **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/8

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110b/p85a)

(Contd. of page 1)

#### 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

#### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components:

56-81-5 glycerol

25-50%

## Additional information: For the wording of the listed risk phrases refer to section 15.

#### 4 First-aid measures

#### Description of first aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

*After skin contact: Generally the product does not irritate the skin.* 

*After eye contact:* Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Fire-fighting measures

#### Extinguishing media

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known No further relevant information available. Advice for firefighters No special advice. Protective equipment: No special measures required.

#### 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Not required.

 Environmental precautions:

 Dilute with plenty of water.

 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:

 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

 Reference to other sections

 No dangerous substances are released.

 See Section 7 for information on safe handling.

 See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110b/p85a)

(Contd. of page 2)

#### 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Do not store below -20°C. Protected from light. Information about storage in one common storage facility: Not required. Further information about storage conditions: None.

*Specific end use(s)* No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

#### 56-81-5 glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup> mist; \*total dust \*\*respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

Additional information: The lists that were valid during the creation were used as basis.

#### **Exposure** controls

#### Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

#### Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

#### Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

#### 9 Physical and chemical properties

Information on basic ph	ysical and chemical properties
General Information	
Appearance:	
Form:	Fluid
Color:	Colorless
Odor:	Not determined

(Contd. on page 4)

<sup>-</sup>US-

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p110b/p85a)

	(Contd. o	of page
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	8	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	160 °C (320 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto igniting:	400 °C (752 °F)	
<b>Decomposition temperature:</b>	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	0.9 Vol %	
Upper:	0.0 Vol %	
Vapor pressure at 20 °C (68 °F):	0.1 hPa	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent separation test		
Organic solvents:	50.0 %	
Water:	48.6 %	
VOC content:	0.00 %	
Solids content:	0.9 %	
Other information	No further relevant information available.	

## **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)

Printing date 01/09/2024

Reviewed on 01/07/2024

## Trade name: PI3K (p110b/p85a)

(Contd. of page 4)

	Information on toxicological effects
	Acute toxicity:
LD/LC50 values that are relevant for classification:	
56-81-5 glycerol	
Oral LD50 1,200 mg/kg (Rat)	
	Primary irritant effect:
	on the skin: No irritant effect.
	on the eye: No irritating effect.
	Sensitization:
	In case of skin contact: not sensitising In case of inhalation: not sensitising
	Additional toxicological information:
	The product is not subject to classification according to internally approved calculation methods
	preparations:
	Carcinogenic categories
	IARC (International Agency for Research on Cancer)
	None of the ingredients are listed.
	NTP (National Toxicology Program)
	None of the ingredients are listed.
	OSHA-Ca (Occupational Safety & Health Administration)
	None of the ingredients are listed.
_	
-	2 Ecological information
2	
2	Toxicity
2	Aquatic toxicity: Not harmful to the aquatic environment
2	Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability
2	Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available
2	Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available.
2	Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. Bioaccumulative potential
2	Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. Bioaccumulative potential Not known
	Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. Bioaccumulative potential
2	Aquatic toxicity: Not harmful to the aquatic environmentPersistence and degradabilityNot availableNo further relevant information available.Bioaccumulative potentialNot knownNo further relevant information available.Mobility in soil No further relevant information available.Ecotoxicological effects:
2	Aquatic toxicity: Not harmful to the aquatic environmentPersistence and degradabilityNot availableNo further relevant information available.Bioaccumulative potentialNot knownNo further relevant information available.Mobility in soil No further relevant information available.

General notes: Not known to be hazardous to water.

**Results of PBT and vPvB assessment PBT:** Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

(Contd. on page 6)

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p110b/p85a)

(Contd. of page 5)

### **13 Disposal considerations**

#### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL 73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	<i>Not applicable</i>	

#### **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

56-81-5 glycerol

Hazardous Air Pollutants

None of the ingredients are listed.

(Contd. on page 7)

ACTIVE

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p110b/p85a)

	(Contd. of page 6)
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
New Jersey Right-to-Know List:	
56-81-5 glycerol	
Pennsylvania Right-to-Know List:	
56-81-5 glycerol	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
TLV (Threshold Limit Value)	
None of the ingredients are listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
GHS label elements Not applicable	
Signal word Not applicable	

Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 8)

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110b/p85a)

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit (Contd. of page 7)



#### Printing date 01/09/2024

Reviewed on 01/07/2024

#### 1 Identification

Product identifier Trade name: <u>PI3K (p120g)</u> Article number: V176 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

#### 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 1*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 1 Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): May cause Kidney damage (Nephrotoxin) **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/8

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p120g)

(Contd. of page 1)

#### 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

#### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components:

56-81-5 glycerol

25-50%

#### 4 First-aid measures

#### Description of first aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

Additional information: For the wording of the listed risk phrases refer to section 15.

*After skin contact: Generally the product does not irritate the skin.* 

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Fire-fighting measures

#### Extinguishing media

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture None known

No further relevant information available.

Advice for firefighters No special advice.

Protective equipment: No special measures required.

#### 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Not required.

 Environmental precautions:

 Dilute with plenty of water.

 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:

 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

 Reference to other sections

 No dangerous substances are released.

 See Section 7 for information on safe handling.

 See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/07/2024

(Contd. of page 2)

#### Trade name: PI3K (p120g)

7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. **Information about storage in one common storage facility:** Not required. **Further information about storage conditions:** None.

Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

## 56-81-5 glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup> mist; \*total dust \*\*respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

Additional information: The lists that were valid during the creation were used as basis.

#### **Exposure** controls

#### Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

## Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

#### Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

## 9 Physical and chemical properties

Information on basic ph	vsical and chemical properties	
General Information		
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	

(Contd. on page 4)

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p120g)

	(Contd. of page
Odor threshold:	Not determined.
pH-value at 20 °C (68 °F):	8
Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	Undetermined. Undetermined. 160 °C (320 °F)
Flammability (solid, gaseous):	Not applicable.
Auto igniting: Decomposition temperature:	400 °C (752 °F) Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.
Lower:	0.9 Vol %
Upper: Vapor pressure at 20 °C (68 °F):	0.0 Vol % 0.1 hPa
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	
<i>water:</i> <i>Partition coefficient (n-octanol/water):</i>	Fully miscible.
Viscosity:	Not determined.
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent separation test	
Organic solvents:	50.0 %
Water:	48.6 %
VOC content:	0.00 %
Solids content:	0.9 %
Other information	No further relevant information available.

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)

US

Printing date 01/09/2024

Reviewed on 01/07/2024

# Trade name: PI3K (p120g)

(Contd. of page 4)

	1 Toxicological information
	Information on toxicological effects
	Acute toxicity:
	LD/LC50 values that are relevant for classification:
	56-81-5 glycerol
	Oral LD50 1,200 mg/kg (Rat)
	Primary irritant effect:
	on the skin: No irritant effect.
	on the eye: No irritating effect.
	Sensitization:
	In case of skin contact: not sensitising
	In case of inhalation: not sensitising Additional toxicological information:
	The product is not subject to classification according to internally approved calculation methods
	preparations:
	Carcinogenic categories
	IARC (International Agency for Research on Cancer)
_	None of the ingredients are listed.
	TP (National Toxicology Program)
	None of the ingredients are listed.
-	OSHA-Ca (Occupational Safety & Health Administration)
	None of the ingredients are listed.
2	2 Ecological information
	Toxicity
	Aquatic toxicity: Not harmful to the aquatic environment
	Persistence and degradability
	Not available
	No further relevant information available.
	Bioaccumulative potential
	Not known
	No further relevant information available.
	<i>Mobility in soil</i> No further relevant information available. <i>Ecotoxicological effects:</i>
	Remark: Not available
	Additional ecological information:
	General notes: Not known to be hazardous to water.
	Results of PBT and vPvB assessment
	<b>PBT:</b> Not applicable.
	vPvB: Not applicable.
	<b>Other adverse effects</b> No further relevant information available.

(Contd. on page 6)

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p120g)

(Contd. of page 5)

## **13 Disposal considerations**

#### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable
Transport hazard class(es)	None
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	None Not applicable
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL 73/78 and the IBC Code	<i>II of</i> Not applicable.
UN "Model Regulation":	<i>Not applicable</i>

## **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

56-81-5 glycerol

Hazardous Air Pollutants

None of the ingredients are listed.

(Contd. on page 7)

ACTIVE

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p120g)

	(Contd. of page 6)
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
New Jersey Right-to-Know List:	
56-81-5 glycerol	
Pennsylvania Right-to-Know List:	
56-81-5 glycerol	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
TLV (Threshold Limit Value)	
None of the ingredients are listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
GHS label elements Not applicable	
Signal word Not applicable	

Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

## **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. of page 7)

# Safety Data Sheet acc. to OSHA HCS

Printing date 01/09/2024

Reviewed on 01/07/2024

## Trade name: PI3K (p120g)

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit



#### Printing date 01/09/2024

Reviewed on 01/07/2024

## 1 Identification

Product identifier Trade name: <u>PI3K (p110d/p85a)</u> Article number: V177 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 1*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 1 Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): May cause Kidney damage (Nephrotoxin) **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/8

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110d/p85a)

(Contd. of page 1)

## 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

#### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components:

56-81-5 glycerol

25-50%

# Additional information: For the wording of the listed risk phrases refer to section 15.

#### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

*After skin contact: Generally the product does not irritate the skin.* 

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

*CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture* 

None known

No further relevant information available.

Advice for firefighters No special advice.

Protective equipment: No special measures required.

## 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Not required.

 Environmental precautions:

 Dilute with plenty of water.

 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:

 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

 Reference to other sections

 No dangerous substances are released.

 See Section 7 for information on safe handling.

 See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K (p110d/p85a)

(Contd. of page 2)

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Do not store below -20°C. Protected from light. Information about storage in one common storage facility: Not required. Further information about storage conditions: None.

*Specific end use(s)* No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

### 56-81-5 glycerol

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup> mist; \*total dust \*\*respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

Additional information: The lists that were valid during the creation were used as basis.

#### **Exposure** controls

#### Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

#### Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

#### Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

## 9 Physical and chemical properties

ical and chemical properties	
Fluid	
Colorless	
Not determined	
	Fluid Colorless

(Contd. on page 4)

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p110d/p85a)

	(Contd. of page
Odor threshold:	Not determined.
pH-value at 20 °C (68 °F):	8
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	160 °C (320 °F)
Flammability (solid, gaseous):	Not applicable.
Auto igniting:	400 °C (752 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	0.9 Vol %
Upper:	0.0 Vol %
Vapor pressure at 20 °C (68 °F):	0.1 hPa
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent separation test	
Organic solvents:	50.0 %
Water:	48.6 %
VOC content:	0.00 %
Solids content:	0.9 %
Other information	No further relevant information available.

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 5)

US

Printing date 01/09/2024

Reviewed on 01/07/2024

## Trade name: PI3K (p110d/p85a)

(Contd. of page 4)

	nformation on toxicological effects  cute toxicity:
	D/LC50 values that are relevant for classification:
	6-81-5 glycerol
	Dral LD50 1,200 mg/kg (Rat)
o o S Ir Ir A T	Primary irritant effect: n the skin: No irritant effect. n the eye: No irritating effect. lensitization: n case of skin contact: not sensitising n case of inhalation: not sensitising dditional toxicological information: ldditional toxicological information:
-	reparations: F <b>arcinogenic categories</b>
	ARC (International Agency for Research on Cancer)
	Ione of the ingredients are listed.
Λ	ITP (National Toxicology Program)
	Ione of the ingredients are listed.
0	OSHA-Ca (Occupational Safety & Health Administration)
	Ione of the ingredients are listed.
12 E	Ecological information
A	oxicity quatic toxicity: Not harmful to the aquatic environment
	<b>Persistence and degradability</b> Jot available
	To further relevant information available.
	<i>Bioaccumulative potential</i>
	lot known
	<i>To further relevant information available.</i>
	<i>Tobility in soil</i> No further relevant information available.
	Cotoxicological effects: Remark: Not available
	Idditional ecological information:
	Summal notae, Not known to be hazardoug to water

General notes: Not known to be hazardous to water.

**Results of PBT and vPvB assessment PBT:** Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

(Contd. on page 6)

US

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p110d/p85a)

(Contd. of page 5)

## **13 Disposal considerations**

#### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	<i>Not applicable</i>	

## **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

56-81-5 glycerol

Hazardous Air Pollutants

None of the ingredients are listed.

(Contd. on page 7)

ACTIVE

US

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K (p110d/p85a)

(C	Contd. of page 6)
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
New Jersey Right-to-Know List:	
56-81-5 glycerol	
Pennsylvania Right-to-Know List:	
56-81-5 glycerol	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
TLV (Threshold Limit Value)	
None of the ingredients are listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	
GHS label elements Not applicable	
Signal word Not applicable	
Hazard statements Not applicable	

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

## **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### **Department issuing SDS:** Promega Corporation

Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. of page 7)

# Safety Data Sheet acc. to OSHA HCS

Printing date 01/09/2024

Reviewed on 01/07/2024

## Trade name: PI3K (p110d/p85a)

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit



#### Printing date 01/09/2024

## Reviewed on 01/07/2024

## 1 Identification

Product identifier Trade name: <u>PI3K Reaction Buffer, 5X</u> Article number: V169 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/7

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K Reaction Buffer, 5X

(Contd. of page 1)

## 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

#### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components: Not applicable

Additional information: For the wording of the listed risk phrases refer to section 15.

#### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

- After inhalation: If the patient feels unwell or is concerned, obtain medical advice.
- *After skin contact: Generally the product does not irritate the skin.*
- After eye contact: Rinse opened eye for several minutes under running water.
- *After swallowing:* If the patient feels unwell or is concerned, obtain medical advice.
- Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture

None known

No further relevant information available.

Advice for firefighters No special advice.

Protective equipment: No special measures required.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K Reaction Buffer, 5X

(Contd. of page 2)

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities

Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. **Information about storage in one common storage facility:** Not required. **Further information about storage conditions:** None.

*Specific end use(s)* No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

*Additional information:* The lists that were valid during the creation were used as basis.

#### **Exposure** controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

## Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

## Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

# 9 Physical and chemical properties

Information on basic physical an General Information Appearance:	nd chemical properties	
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	7.5	
		(Contd. on page 4)

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K Reaction Buffer, 5X

	(Contd. of page
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
<b>Decomposition temperature:</b>	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent separation test	
Water:	92.4 %
VOC content:	0.00 %
Solids content:	1.8 %
Other information	No further relevant information available.

## 10 Stability and reactivity

Reactivity No further relevant information available.
Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions No dangerous reactions known.
Conditions to avoid No further relevant information available.
Incompatible materials: No further relevant information available.
Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect.

(Contd. on page 5)

US

Printing date 01/09/2024

Reviewed on 01/07/2024

#### Trade name: PI3K Reaction Buffer, 5X

(Contd. of page 4)

#### Sensitization:

In case of skin contact: not sensitising In case of inhalation: not sensitising

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

## Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

## **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

## **12 Ecological information**

#### Toxicity

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: Remark: Not available Additional ecological information: General notes: Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## **14 Transport information**

**UN-Number** 

Not hazardous for transportation

(Contd. on page 6)

US

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K Reaction Buffer, 5X

		(Contd. of page
DOT, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All components have the value ACTIVE.

#### Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

None of the ingredients are listed.

## Pennsylvania Right-to-Know List:

None of the ingredients are listed.

(Contd. on page 7)

– US

Printing date 01/09/2024

Reviewed on 01/07/2024

Trade name: PI3K Reaction Buffer, 5X

(Contd. of page 6)

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.* 

## **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronvms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit



#### Printing date 01/09/2024

Reviewed on 01/05/2024

## 1 Identification

Product identifier Trade name: <u>MgCl2, 1M</u> Article number: V330 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/7

Printing date 01/09/2024

Reviewed on 01/05/2024

Trade name: MgCl2, 1M

(Contd. of page 1)

## 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

#### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components: Not applicable

Additional information: For the wording of the listed risk phrases refer to section 15.

#### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

*After inhalation: If the patient feels unwell or is concerned, obtain medical advice.* 

*After skin contact:* Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

*After swallowing:* If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. *Special hazards arising from the substance or mixture* 

None known

No further relevant information available.

Advice for firefighters No special advice.

**Protective equipment:** No special measures required.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/05/2024

#### Trade name: MgCl2, 1M

(Contd. of page 2)

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities

Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. Information about storage in one common storage facility: Not required. Further information about storage conditions: None.

Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

#### **Exposure** controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

## Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

## Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

## 9 Physical and chemical properties

Information on basic physical an General Information Appearance:	nd chemical properties	
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	5.6	
		(Contd. on page 4)

US

Printing date 01/09/2024

Reviewed on 01/05/2024

Trade name:	MgCl2,	1M
-------------	--------	----

	(Contd. of page
Change in condition Melting point/Melting range:	Undetermined.
Boiling point/Boiling range: Flash point:	100 °C (212 °F) Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	1.11551 g/cm <sup>3</sup> (9.30893 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent separation test	
Water:	90.5 %
VOC content:	0.00 %
Solids content:	20.3 %
Other information	No further relevant information available.

## 10 Stability and reactivity

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions Reacts with strong acids. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: Carbon monoxide and carbon dioxide

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect.

(Contd. on page 5)

US

Printing date 01/09/2024

Reviewed on 01/05/2024

#### Trade name: MgCl2, 1M

(Contd. of page 4)

Sensitization:

In case of skin contact: not sensitising In case of inhalation: not sensitising

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

## Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

## **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

## **12 Ecological information**

#### Toxicity

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: Remark: Not available Additional ecological information: General notes: Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## **14 Transport information**

**UN-Number** 

Not hazardous for transportation

(Contd. on page 6)

US

Printing date 01/09/2024

Reviewed on 01/05/2024

Trade name: MgCl2, 1M

		(Contd. of page 5
DOT, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All components have the value ACTIVE.

#### Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

None of the ingredients are listed.

## Pennsylvania Right-to-Know List:

None of the ingredients are listed.

(Contd. on page 7)

Printing date 01/09/2024

Reviewed on 01/05/2024

#### Trade name: MgCl2, 1M

(Contd. of page 6)

#### Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable Chemical safety assessment

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

#### 16 Other information

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: Internation Civil Aviation Organization ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

US



#### Printing date 01/09/2024

Reviewed on 01/05/2024

## 1 Identification

Product identifier Trade name: <u>PIP2:3PS Substrate</u> Article number: V170 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/7

Printing date 01/09/2024

Reviewed on 01/05/2024

#### Trade name: PIP2:3PS Substrate

(Contd. of page 1)

## 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

#### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components: Not applicable

Additional information: For the wording of the listed risk phrases refer to section 15.

#### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

- After inhalation: If the patient feels unwell or is concerned, obtain medical advice.
- *After skin contact: Generally the product does not irritate the skin.*
- After eye contact: Rinse opened eye for several minutes under running water.
- *After swallowing:* If the patient feels unwell or is concerned, obtain medical advice.
- Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture

None known

No further relevant information available.

Advice for firefighters No special advice.

**Protective equipment:** No special measures required.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.
Environmental precautions: Dilute with plenty of water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/05/2024

## Trade name: PIP2:3PS Substrate

(Contd. of page 2)

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities

Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. Information about storage in one common storage facility: Not required. Further information about storage conditions: None.

*Specific end use(s)* No further relevant information available.

#### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

*Additional information:* The lists that were valid during the creation were used as basis.

#### **Exposure** controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

## Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

## Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eve protection:** Not required.

# 9 Physical and chemical properties

Information on basic physical an General Information Appearance:	nd chemical properties	
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	7.5	
		(Contd. on page 4)

Printing date 01/09/2024

Reviewed on 01/05/2024

Trade name: PIP2:3PS Substrate

		(Contd. of page
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
<b>Decomposition temperature:</b>	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1 g/cm <sup>3</sup> (8.345 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water	r): Not determined.	
Viscosity: Dynamic at 20 °C (68 °F):	0.0952 mPas	
Kinematic:	Not determined.	
Solvent separation test		
Water:	98.4 %	
VOC content:	0.00 %	
Solids content:	1.6 %	
Other information	No further relevant information available.	

## **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect.

(Contd. on page 5)

<sup>-</sup> US

Printing date 01/09/2024

Reviewed on 01/05/2024

#### Trade name: PIP2:3PS Substrate

(Contd. of page 4)

Sensitization: In case of skin contact: not sensitising

*In case of inhalation: not sensitising* Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

## Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

## **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

## **12 Ecological information**

#### **Toxicity**

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability *Not available* No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not available. Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.

(Contd. on page 6)

Printing date 01/09/2024

Reviewed on 01/05/2024

#### Trade name: PIP2:3PS Substrate

(Contd. of page 5)

Transport information		
UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Not applicable	

## **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

## Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

None of the ingredients are listed.

#### Pennsylvania Right-to-Know List:

None of the ingredients are listed.

(Contd. on page 7)

US

Printing date 01/09/2024

Reviewed on 01/05/2024

Trade name: PIP2:3PS Substrate

(Contd. of page 6)

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

*Water hazard class:* Generally not hazardous for water. *Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

## **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit



#### Printing date 01/09/2024

## Reviewed on 01/05/2024

## **1** Identification

**Product identifier Trade name:** <u>Lipid Dilution Buffer, 10X</u> **Article number:** V180 **Application of the substance / the mixture** For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

## 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/7

Printing date 01/09/2024

Reviewed on 01/05/2024

Trade name: Lipid Dilution Buffer, 10X

(Contd. of page 1)

# 3 Composition/information on ingredients

### Chemical characterization: Mixtures

### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components: Not applicable

Additional information: For the wording of the listed risk phrases refer to section 15.

### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

- After inhalation: If the patient feels unwell or is concerned, obtain medical advice.
- *After skin contact: Generally the product does not irritate the skin.*
- After eye contact: Rinse opened eye for several minutes under running water.
- *After swallowing:* If the patient feels unwell or is concerned, obtain medical advice.
- Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture

None known

No further relevant information available.

Advice for firefighters No special advice.

Protective equipment: No special measures required.

# 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/05/2024

Trade name: Lipid Dilution Buffer, 10X

(Contd. of page 2)

# 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities

Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. **Information about storage in one common storage facility:** Not required. **Further information about storage conditions:** None.

*Specific end use(s)* No further relevant information available.

### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

*Additional information:* The lists that were valid during the creation were used as basis.

### **Exposure** controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

# Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

# Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

# 9 Physical and chemical properties

Information on basic physical an General Information Appearance:	nd chemical properties	
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	7.5	
		(Contd. on page 4)

Printing date 01/09/2024

Reviewed on 01/05/2024

Trade name: Lipid Dilution Buffer, 10X

		(Contd. of page
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
<b>Decomposition temperature:</b>	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	er): Not determined.	
Viscosity:	, ,	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent separation test		
Water:	93.8 %	
VOC content:	0.00 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: In case of skin contact: not sensitising In case of inhalation: not sensitising

(Contd. on page 5)

US

Printing date 01/09/2024

Reviewed on 01/05/2024

(Contd. of page 4)

### Trade name: Lipid Dilution Buffer, 10X

### Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

### Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

### **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# 12 Ecological information

### Toxicity

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability *Not available* No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not known to be hazardous to water. Results of PBT and vPvB assessment *PBT:* Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

# **13 Disposal considerations**

### Waste treatment methods

### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

4 Transport information		
UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable	
UN proper shipping name	None	
		(Contd. on pag

Printing date 01/09/2024

Reviewed on 01/05/2024

Trade name: Lipid Dilution Buffer, 10X

		(Contd. of page
DOT, ADR, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

Hazardous Air Pollutants

None of the ingredients are listed.

### **Proposition 65**

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

None of the ingredients are listed.

Pennsylvania Right-to-Know List:

None of the ingredients are listed.

### Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value)

None of the ingredients are listed.

(Contd. on page 7)

Printing date 01/09/2024

Reviewed on 01/05/2024

Trade name: Lipid Dilution Buffer, 10X

(Contd. of page 6)

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

# **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit



### Printing date 01/09/2024

Reviewed on 01/03/2024

# 1 Identification

**Product identifier Trade name:** <u>ADP-Glo<sup>TM</sup> Reagent</u> **Article number:** V912 **Application of the substance / the mixture** For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/7

Printing date 01/09/2024

Reviewed on 01/03/2024

### Trade name: ADP-Glo<sup>™</sup> Reagent

(Contd. of page 1)

# 3 Composition/information on ingredients

### Chemical characterization: Mixtures

### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

### Dangerous components: Not applicable

Additional information: For the wording of the listed risk phrases refer to section 15.

### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

*After inhalation: If the patient feels unwell or is concerned, obtain medical advice.* 

*After skin contact: Generally the product does not irritate the skin.* 

After eye contact: Rinse opened eye for several minutes under running water.

*After swallowing:* If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

*CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture* 

None known

No further relevant information available.

Advice for firefighters No special advice.

**Protective equipment:** No special measures required.

# 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.
Environmental precautions: Dilute with plenty of water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/03/2024

# Trade name: ADP-Glo™ Reagent

(Contd. of page 2)

# 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities

Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. **Information about storage in one common storage facility:** Not required. **Further information about storage conditions:** None.

Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

*Additional information:* The lists that were valid during the creation were used as basis.

#### **Exposure** controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

# Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

# Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

# 9 Physical and chemical properties

Information on basic physical and General Information	nd chemical properties	
Appearance: Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	7.5	
		(Contd. on page 4)

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: ADP-Glo<sup>TM</sup> Reagent

		(Contd. of page
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
<b>Boiling point/Boiling range:</b>	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
<b>Decomposition temperature:</b>	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1 g/cm³ (8.345 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity:		
Dynamic at 20 °C (68 °F):	0.0952 mPas	
Kinematic:	Not determined.	
Solvent separation test		
Organic solvents:	0.7 %	
Water:	98.0 %	
VOC content:	0.00 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect.

(Contd. on page 5)

US

Printing date 01/09/2024

Reviewed on 01/03/2024

### Trade name: ADP-Glo<sup>™</sup> Reagent

(Contd. of page 4)

Sensitization: In case of skin contact: not sensitising

In case of inhalation: not sensitising

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

# Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

# **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12 Ecological information**

#### **Toxicity**

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability *Not available* No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not available. Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

### **13 Disposal considerations**

### Waste treatment methods

### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

(Contd. on page 6)

Printing date 01/09/2024

Reviewed on 01/03/2024

### Trade name: ADP-Glo<sup>™</sup> Reagent

(Contd. of page 5)

14 Transport information	
UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable
Transport hazard class(es)	None
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	None Not applicable
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL 73/78 and the IBC Code	II of Not applicable.
UN "Model Regulation":	Not applicable

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

### Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

56-81-5 glycerol

Pennsylvania Right-to-Know List:

56-81-5 glycerol

(Contd. on page 7)

US

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: ADP-Glo<sup>™</sup> Reagent

(Contd. of page 6)

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

*Water hazard class:* Generally not hazardous for water. *Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

# **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: Internation Civil Aviation Organization ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

US



### Printing date 01/09/2024

### Reviewed on 01/03/2024

# 1 Identification

Product identifier Trade name: <u>Kinase Detection Buffer</u> Article number: V913 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/7

Printing date 01/09/2024

Reviewed on 01/03/2024

### Trade name: Kinase Detection Buffer

(Contd. of page 1)

1-5%

1-5%

# 3 Composition/information on ingredients

# Chemical characterization: Mixtures

# Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

### Dangerous components:

9002-92-0 Polyethylene glycol 400 dodecyl ether

1119-94-4 Dodecyltrimethylammonium bromide

Additional information: For the wording of the listed risk phrases refer to section 15.

### 4 First-aid measures

Description of first aid measures

*General information:* No special measures required.

*After inhalation: If the patient feels unwell or is concerned, obtain medical advice.* 

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

*CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture* 

None known

No further relevant information available. Advice for firefighters No special advice. Protective equipment: No special measures required.

# 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.
Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Reference to other sections
See Section 7 for information on safe handling.

(Contd. on page 3)

<sup>–</sup> US

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: Kinase Detection Buffer

(Contd. of page 2)

See Section 13 for disposal information.

# 7 Handling and storage

### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities

Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. Information about storage in one common storage facility: Not required. Further information about storage conditions: None.

Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

### **Control parameters**

### Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment: General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required. Protection of hands: Select the glove material considering penetration time, rate of diffusion and degradation time. Material of gloves Gloves impermeable to the specific chemical substance. Please observe the instructions regarding permeability and breakthrough time which are provided by the

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

# 9 Physical and chemical properties

Information on basic physic	cal and chemical properties
General Information	
Appearance:	
Form:	Fluid
Color:	Colorless
Odor:	Not determined
Odor threshold:	Not determined.

(Contd. on page 4)

\_\_\_\_

Printing date 01/09/2024

Reviewed on 01/03/2024

### Trade name: Kinase Detection Buffer

		(Contd. of page
pH-value at 20 °C (68 °F):	8	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
<b>Decomposition temperature:</b>	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
r of the second	Not determined.	
	Not determined.	
Solubility in / Miscibility with		
	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
2,5	Not determined.	
Kinematic:	Not determined.	
Solvent separation test		
	85.9 %	
VOC content:	0.00 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect.

(Contd. on page 5)

US

Printing date 01/09/2024

Reviewed on 01/03/2024

### Trade name: Kinase Detection Buffer

(Contd. of page 4)

### Sensitization:

In case of skin contact: not sensitising In case of inhalation: not sensitising

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

# Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

# **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12 Ecological information**

### Toxicity

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: Remark: Not available Additional ecological information: General notes: Not known to be hazardous to water. Results of PBT and vPvB assessment *PBT:* Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

# **13 Disposal considerations**

### Waste treatment methods

### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

# **14 Transport information**

**UN-Number** 

Not hazardous for transportation

(Contd. on page 6)

US

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: Kinase Detection Buffer

		(Contd. of page
DOT, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

9002-92-0 Polyethylene glycol 400 dodecyl ether 1119-94-4 Dodecyltrimethylammonium bromide

Hazardous Air Pollutants

None of the ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

None of the ingredients are listed.

# Pennsylvania Right-to-Know List:

None of the ingredients are listed.

(Contd. on page 7)

ACTIVE

ACTIVE

<sup>•</sup> Uʻ

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: Kinase Detection Buffer

(Contd. of page 6)

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

### **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronvms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit



### Printing date 01/09/2024

Reviewed on 01/03/2024

# 1 Identification

Product identifier Trade name: <u>Kinase Detection Substrate</u>, (2ml) Article number: V914A Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/7

Printing date 01/09/2024

Reviewed on 01/03/2024

### Trade name: Kinase Detection Substrate, (2ml)

(Contd. of page 1)

# 3 Composition/information on ingredients

### Chemical characterization: Mixtures

### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

### Dangerous components:

125572-95-4 trans-1,2-Diaminocyclohexane-N,N,N',N'-tetraacetic acid monohydrate Additional information: For the wording of the listed risk phrases refer to section 15. 5-10%

### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

*After skin contact: Generally the product does not irritate the skin.* 

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

Most important symptoms and effects, both acute and delayed None

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

*CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture* 

None known

No further relevant information available.

Advice for firefighters No special advice.

Protective equipment: No special measures required.

# 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Not required.

 Environmental precautions:

 Dilute with plenty of water.

 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:

 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

 Reference to other sections

 No dangerous substances are released.

 See Section 7 for information on safe handling.

 See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: Kinase Detection Substrate, (2ml)

(Contd. of page 2)

# 7 Handling and storage

### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities

Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. **Information about storage in one common storage facility:** Not required. **Further information about storage conditions:** None.

*Specific end use(s)* No further relevant information available.

### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

*Additional information:* The lists that were valid during the creation were used as basis.

### **Exposure** controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

# Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

# Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

# 9 Physical and chemical properties

Information on basic physical an General Information	a cnemicai properties	
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	6	
		(Contd. on page 4

Printing date 01/09/2024

Reviewed on 01/03/2024

# Trade name: Kinase Detection Substrate, (2ml)

Change in condition		(Contd. of pag
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	Undetermined	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:	Trouver uses not present un explosion nuzuru.	
Lower:	Not determined	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.014 g/cm <sup>3</sup> (8.46183 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water	·): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent separation test		
Water:	4.8 %	
VOC content:	0.00 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: In case of skin contact: not sensitising In case of inhalation: not sensitising

(Contd. on page 5)

US

Printing date 01/09/2024

Reviewed on 01/03/2024

(Contd. of page 4)

### Trade name: Kinase Detection Substrate, (2ml)

### Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

### Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

### **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# 12 Ecological information

### **Toxicity**

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability *Not available* No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not known to be hazardous to water. Results of PBT and vPvB assessment *PBT:* Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

# **13 Disposal considerations**

### Waste treatment methods

### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information		
UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable	
UN proper shipping name	None	
		(Contd. on pag

Printing date 01/09/2024

Reviewed on 01/03/2024

### Trade name: Kinase Detection Substrate, (2ml)

		(Contd. of page
DOT, ADR, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	<b>I of</b> Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

Hazardous Air Pollutants

None of the ingredients are listed.

### **Proposition 65**

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

None of the ingredients are listed.

Pennsylvania Right-to-Know List:

None of the ingredients are listed.

### Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value)

None of the ingredients are listed.

(Contd. on page 7)

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: Kinase Detection Substrate, (2ml)

(Contd. of page 6)

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

# **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit



### Printing date 01/09/2024

### Reviewed on 01/03/2024

# 1 Identification

Product identifier Trade name: <u>Ultra Pure ATP, 10mM</u> Article number: V915 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

*Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).* 

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/7

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: Ultra Pure ATP, 10mM

(Contd. of page 1)

# 3 Composition/information on ingredients

### Chemical characterization: Mixtures

### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

#### Dangerous components: Not applicable

Additional information: For the wording of the listed risk phrases refer to section 15.

### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

*After swallowing:* If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

*CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture* 

None known

No further relevant information available.

Advice for firefighters No special advice.

**Protective equipment:** No special measures required.

# 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.
Environmental precautions: Dilute with plenty of water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/03/2024

### Trade name: Ultra Pure ATP, 10mM

(Contd. of page 2)

# 7 Handling and storage

### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities

Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. **Information about storage in one common storage facility:** Not required. **Further information about storage conditions:** None.

*Specific end use(s)* No further relevant information available.

### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

*Additional information:* The lists that were valid during the creation were used as basis.

### **Exposure** controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

# Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

# Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

#### 9 Physical and chemical properties Information on basic physical and chemical properties **General Information** Appearance: Form: Fluid Color: Colorless Odor: Not determined **Odor threshold:** Not determined. Change in condition 0 °C (32 °F) *Melting point/Melting range:* (Contd. on page 4)

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: Ultra Pure ATP, 10mM

		(Contd. of page
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	0.99587 g/cm <sup>3</sup> (8.31054 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
Dynamic at 20 °C (68 °F):	0.0952 mPas	
Kinematic:	Not determined.	
Solvent separation test		
Water:	99.4 %	
VOC content:	0.00 %	
Other information	No further relevant information available.	

# 10 Stability and reactivity

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: In case of skin contact: not sensitising In case of inhalation: not sensitising

(Contd. on page 5)

<sup>–</sup> US

Printing date 01/09/2024

Reviewed on 01/03/2024

(Contd. of page 4)

### Trade name: Ultra Pure ATP, 10mM

### Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

### Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

### **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12** Ecological information

#### **Toxicity**

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not available. Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

# **13 Disposal considerations**

#### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

# 14 Transport information

UN-Number

Not hazardous for transportation

(Contd. on page 6)

#### US

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: Ultra Pure ATP, 10mM

		(Contd. of page
DOT, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All components have the value ACTIVE.

### Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

None of the ingredients are listed.

# Pennsylvania Right-to-Know List:

None of the ingredients are listed.

(Contd. on page 7)

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: Ultra Pure ATP, 10mM

(Contd. of page 6)

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

*Water hazard class:* Generally not hazardous for water. *Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

# **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronvms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

US



### Printing date 01/09/2024

Reviewed on 01/03/2024

# 1 Identification

Product identifier Trade name: <u>ADP, 10mM</u> Article number: V916 Application of the substance / the mixture For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

Label elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Page 1/7

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: ADP, 10mM

(Contd. of page 1)

# 3 Composition/information on ingredients

### Chemical characterization: Mixtures

### Description:

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

### Dangerous components: Not applicable

Additional information: For the wording of the listed risk phrases refer to section 15.

### 4 First-aid measures

Description of first aid measures

General information: No special measures required.

After inhalation: If the patient feels unwell or is concerned, obtain medical advice.

*After skin contact: Generally the product does not irritate the skin.* 

After eye contact: Rinse opened eye for several minutes under running water.

*After swallowing:* If the patient feels unwell or is concerned, obtain medical advice.

Information for doctor:

*Most important symptoms and effects, both acute and delayed None* 

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture

None known

No further relevant information available.

Advice for firefighters No special advice.

**Protective equipment:** No special measures required.

# 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.
Environmental precautions: Dilute with plenty of water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 13 for disposal information.

(Contd. on page 3)

Printing date 01/09/2024

Reviewed on 01/03/2024

### Trade name: ADP, 10mM

(Contd. of page 2)

# 7 Handling and storage

### Handling:

**Precautions for safe handling** No special measures required. **Information about protection against explosions and fires:** The product is not flammable.

Conditions for safe storage, including any incompatibilities

Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. Information about storage in one common storage facility: Not required. Further information about storage conditions: None.

Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

*Additional information:* The lists that were valid during the creation were used as basis.

### **Exposure** controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

# Protection of hands:

Select the glove material considering penetration time, rate of diffusion and degradation time.

# Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Eye protection:** Not required.

# 9 Physical and chemical properties

Information on basic physical an General Information	nd chemical properties	
Appearance: Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	7.5	
		(Contd. on page 4)

Printing date 01/09/2024

Reviewed on 01/03/2024

0.00 %	
99.6 %	
Not determined.	
0.0952 mPas	
•	
r): Not determined.	
Fully miscible.	
Not determined.	
Not determined.	
Not determined	
$1 \sigma/cm^{3}$ (8 345 lbs/gal)	
Not determined.	
Not determined.	
Not determined.	
Product does not present an explosion hazard	
Product is not selfigniting.	
Not applicable. Not determined.	
100 °C (212 °F) Not applicable.	
0 °C (32 °F)	
	Not applicable.         Not applicable.         Not determined.         Product is not selfigniting.         Product does not present an explosion hazard.         Not determined.         Not determined.         Not determined.         Not determined.         I g/cm³ (8.345 lbs/gal)         Not determined.         South determined.         99.6 %

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: In case of skin contact: not sensitising In case of inhalation: not sensitising

(Contd. on page 5)

US

Printing date 01/09/2024

Reviewed on 01/03/2024

# Trade name: ADP, 10mM

### Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

### Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

# **OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients are listed.

# **12 Ecological information**

#### **Toxicity**

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability *Not available* No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Not available. Not known to be hazardous to water. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

# 13 Disposal considerations

### Waste treatment methods

#### **Recommendation:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

# 14 Transport information

UN-Number

Not hazardous for transportation

(Contd. on page 6)

### US

(Contd. of page 4)

. . . .

Printing date 01/09/2024

Reviewed on 01/03/2024

Trade name: ADP, 10mM

		(Contd. of page
DOT, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Not applicable	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, ADR, IMDG, IATA	None Not applicable	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

Hazardous Air Pollutants

None of the ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

None of the ingredients are listed.

### Pennsylvania Right-to-Know List:

None of the ingredients are listed.

# Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

(Contd. on page 7)

Printing date 01/09/2024

Reviewed on 01/03/2024

#### Trade name: ADP, 10mM

(Contd. of page 6)

TLV (Threshold Limit Value)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements Not applicable Signal word Not applicable Hazard statements Not applicable

National regulations: No information available

*Water hazard class:* Generally not hazardous for water. *Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

# **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 chemicalregulatory@promega.com Contact: Date of preparation / last revision 01/09/2024 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

US -