01/11/2024	Kit Components	
Product code	Description	
G9952	Caspase-Glo® 1 Inflammasome Assay	
Components:		
G932	MG-132 Inhibitor	
G992	Ac-YVAD-CHO	
G994	Caspase-Glo ® 1 Buffer	
G991	Z-WEHD substrate	



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# **1** Identification

Product identifier Trade name: <u>MG-132 Inhibitor</u> Article number: G932 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



Acute Toxicity - Dermal 4 H312 Harmful in contact with skin.

*Flammable Liquids 4 H227 Combustible liquid.* 

#### Label elements

*GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms* 



Signal word Warning

Hazard-determining components of labeling: dimethyl sulfoxide Hazard statements Combustible liquid. Harmful in contact with skin. Precautionary statements Keep away from flames and hot surfaces. – No smoking. Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

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#### Trade name: MG-132 Inhibitor

	(Contd. of page 1)
If on skin: Wash with plenty of water.	
Call a poison center/doctor if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/international regulation	<i>s</i> .
Classification system:	
NFPÅ ratings (scale 0 - 4)	
Health = 1	
Fire = 2	
Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
Health = 1	
Fire = 2	
Reactivity = 0	
OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Combustible	
Primary route(s) of entry: Dermal	
Target Organ(s):	
Dermal hazard (Cutaneous hazard)	
Risk of damage to eyes	
Other hazards	
Results of PBT and vPvB assessment	
<b>PBT:</b> Not applicable.	
vPvB: Not applicable.	

### **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:

67-68-5 dimethyl sulfoxide

75-100%

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:

*Immediately remove any clothing soiled by the product.* 

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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

After skin contact: Immediately wash with water and soap and rinse thoroughly.

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

After swallowing: Immediately call a doctor.

Information for doctor:

# Most important symptoms and effects, both acute and delayed

None

No further relevant information available.

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Reviewed on 01/10/2024

Trade name: MG-132 Inhibitor

#### *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

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

Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment. Special hazards arising from the substance or mixture None known

No further relevant information available.

Advice for firefighters In the case of fire, wear respiratory protective equipment and chemical protective suit.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Remove persons from danger area.
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
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).
Dispose contaminated material as waste according to Section 13.
Ensure adequate ventilation.
Reference to other sections
See Section 7 for information on safe handling.

See Section 13 for disposal information.

### 7 Handling and storage

Handling:

**Precautions for safe handling** No special precautions are necessary if used correctly. **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

*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:** Keep receptacle tightly sealed. **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:

67-68-5 dimethyl sulfoxide

WEEL Long-term value: 250 ppm

(Contd. on page 4)

(Contd. of page 2)

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Printing date 01/11/2024

\*

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# Trade name: MG-132 Inhibitor

Additional information: The lists that were valid during the creation were used as basis.	
Exposure controls	
Personal protective equipment:	
General protective and hygienic measures:	
Immediately remove all soiled and contaminated clothing.	
Wash hands before breaks and at the end of work.	
Avoid contact with the eyes and skin.	
Clean skin thoroughly immediately after handling the product.	
Breathing equipment: Not required.	
Protection of hands: Not required.	
Material of gloves	
Gloves impermeable to the specific chemical substance.	
Please observe the instructions regarding permeability and breakthrough time which are provi manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects specific local conditions under which the product is used such as the danger of cuts and abrasion. Ren with care to avoid skin contamination.	t limited to, s. Consider
The selection of the suitable gloves does not only depend on the material, but also on further marks of varies from manufacturer to manufacturer. As the product is a preparation of several substances, the of the glove material can not be calculated in advance and has therefore to be checked prior to the app <b>Eye protection:</b> Safety glasses	e resistance
Use equipment for eye protection tested and approved under government NIOSH standards.	

Information on basic physical and c	chemical properties	
General Information	I I I I I I I I I I I I I I I I I I I	
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
Change in condition		
Melting point/Melting range:	18.45 °C (65.2 °F)	
Boiling point/Boiling range:	189 °C (372.2 °F)	
Flash point:	87 °C (188.6 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto igniting:	270 °C (518 °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:	1.8 Vol %	
Upper:	Zers Vol %	
Vapor pressure at 20 °C (68 °F):	2.5 hPa (1.9 mm Hg)	
Density at 20 °C (68 °F):	1.122 g/cm³ (9.36309 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	

Printing date 01/11/2024

Reviewed on 01/10/2024

Trade name: MG-132 Inhibitor

		(Contd. of page 4
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):	198 mPas	
Kinematic:	Not determined.	
Solvent separation test		
Organic solvents:	99.0 %	
VOC content:	99.05 %	
Solids content:	1.0 %	
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: Oxidizing agents Strong acids Strong reducing agents 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: Causes skin irritation. on the eye: No data available. Sensitization: In case of skin contact: not sensitising In case of inhalation: not sensitising Additional toxicological information: Harmful

#### 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.

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Reviewed on 01/10/2024

#### Trade name: MG-132 Inhibitor

(Contd. of page 5)

## **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: No data available. 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**

1 0		
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.	
		(Contd. on page 7

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Reviewed on 01/10/2024

Trade name: MG-132 Inhibitor

(Contd. of page 6)

ACTIVE

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

UN "Model Regulation":

# **15 Regulatory information**

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

Not applicable

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:

67-68-5 dimethyl sulfoxide

### 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:

67-68-5 *dimethyl sulfoxide* 

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.

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

None of the ingredients are listed.

*GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Signal word* Warning

Hazard-determining components of labeling: dimethyl sulfoxide Hazard statements Combustible liquid. Harmful in contact with skin.

(Contd. on page 8)

Printing date 01/11/2024

Reviewed on 01/10/2024

#### Trade name: MG-132 Inhibitor

(Contd. of page 7)

Precautionary statements Keep away from flames and hot surfaces. – No smoking. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. 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** 01/11/2024 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) 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 Flammable Liquids 4: Flammable liquids – Category 4 Acute Toxicity - Dermal 4: Acute toxicity - Category 4



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# **1** Identification

**Product identifier Trade name:** <u>Ac-YVAD-CHO</u> **Article number:** G992 **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



Acute Toxicity - Dermal 4 H312 Harmful in contact with skin.

*Flammable Liquids 4 H227 Combustible liquid.* 

#### Label elements

*GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms* 



Signal word Warning

Hazard-determining components of labeling: dimethyl sulfoxide Hazard statements Combustible liquid. Harmful in contact with skin. Precautionary statements Keep away from flames and hot surfaces. – No smoking. Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

Printing date 01/11/2024

Reviewed on 01/10/2024

#### Trade name: Ac-YVAD-CHO

	(Contd. of page 1)
If on skin: Wash with plenty of water.	
Call a poison center/doctor if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/international regulat	ions.
Classification system:	
NFPÅ ratings (scale 0 - 4)	
Health = 1	
Fire = 2	
Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
Health = 1	
Fire = 2	
Reactivity = 0	
OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Combustible	
Primary route(s) of entry: Dermal	
Target Organ(s):	
Dermal hazard (Cutaneous hazard)	
Risk of damage to eyes	
Other hazards	
Results of PBT and vPvB assessment	
<b>PBT:</b> Not applicable.	
vPvB: Not applicable.	

### 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:** 

67-68-5 dimethyl sulfoxide

75-100%

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:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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

After skin contact: Immediately wash with water and soap and rinse thoroughly.

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

None

No further relevant information available.

(Contd. on page 3)

US

Printing date 01/11/2024

Reviewed on 01/10/2024

Trade name: Ac-YVAD-CHO

#### *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

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

Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment. Special hazards arising from the substance or mixture None known

No further relevant information available.

Advice for firefighters In the case of fire, wear respiratory protective equipment and chemical protective suit.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Remove persons from danger area.
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
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).
Dispose contaminated material as waste according to Section 13.
Ensure adequate ventilation.
Reference to other sections
See Section 7 for information on safe handling.

See Section 13 for disposal information.

### 7 Handling and storage

Handling:

**Precautions for safe handling** No special precautions are necessary if used correctly. **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

*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:** Keep receptacle tightly sealed. **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:

67-68-5 dimethyl sulfoxide

WEEL Long-term value: 250 ppm

(Contd. on page 4)

(Contd. of page 2)

Printing date 01/11/2024

\*

Reviewed on 01/10/2024

### Trade name: Ac-YVAD-CHO

	(Contd. of page 3)
Additional information: The lists that were valid during the creation were used as basis.	
Exposure controls	
Personal protective equipment:	
General protective and hygienic measures:	
Immediately remove all soiled and contaminated clothing.	
Wash hands before breaks and at the end of work.	
Avoid contact with the eyes and skin.	
Clean skin thoroughly immediately after handling the product.	
Breathing equipment: Not required.	
Protection of hands: Not required.	
Material of gloves	
Gloves impermeable to the specific chemical substance.	
Please observe the instructions regarding permeability and breakthrough time which are manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, bu chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization specific local conditions under which the product is used such as the danger of cuts and abrasic with care to avoid skin contamination.	t is not limited to, effects. Consider
The selection of the suitable gloves does not only depend on the material, but also on further material from manufacturer to manufacturer. As the product is a preparation of several substance of the glove material can not be calculated in advance and has therefore to be checked prior to the several substance of the glove material can not be calculated in advance and has therefore to be checked prior to the several substance of the glove material can not be calculated in advance and has therefore to be checked prior to the several substance of the glove material can be calculated in advance and has therefore to be checked prior to the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of the glove material can be calculated in advance and has the several substance of	ces, the resistance
Eye protection: Safety glasses	
Sujery glusses Use equipment for eve protection tested and approved under government NIOSH standards	

Use equipment for eye protection tested and approved under government NIOSH standards.

Information on basic physical and o	chemical properties	
General Information		
Appearance:		
Form:	Fluid Colorless	
Color:	Not determined	
Odor:	Not determined Not determined.	
Odor threshold:	Noi determinea.	
Change in condition		
Melting point/Melting range:	18.45 °C (65.2 °F)	
Boiling point/Boiling range:	189 °C (372.2 °F)	
Flash point:	87 °C (188.6 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto igniting:	270 °C (518 °F)	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	1.8 Vol %	
Upper:	Zers Vol %	
Vapor pressure at 20 °C (68 °F):	2.5 hPa (1.9 mm Hg)	
Density at 20 °C (68 °F):	1.1 g/cm <sup>3</sup> (9.1795 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	

*Printing date 01/11/2024* 

Reviewed on 01/10/2024

Trade name: Ac-YVAD-CHO

		(Contd. of page 4)
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic at 20 °C (68 °F):	198 mPas	
Kinematic:	Not determined.	
Solvent separation test		
Organic solvents:	99.9 %	
VOC content:	99.90 %	
Solids content:	0.1 %	
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: Oxidizing agents Strong acids Strong reducing agents 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: Causes skin irritation. on the eye: No data available. Sensitization: In case of skin contact: not sensitising In case of inhalation: not sensitising Additional toxicological information: Harmful

#### 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.

(Contd. on page 6)

(Contd. of page 5)

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/11/2024

Reviewed on 01/10/2024

#### Trade name: Ac-YVAD-CHO

**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: No data available. 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**

J		
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.	
		(Contd. on page 7)

Printing date 01/11/2024

Reviewed on 01/10/2024

Trade name: Ac-YVAD-CHO

(Contd. of page 6)

ACTIVE

Transport in bulk according to Annex II of	<b>C</b>
MARPOL73/78 and the IBC Code	Not applicable.

UN "Model Regulation":

# **15 Regulatory information**

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

Not applicable

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:

67-68-5 dimethyl sulfoxide

### 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:

67-68-5 *dimethyl sulfoxide* 

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.

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

None of the ingredients are listed.

*GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Signal word* Warning

Hazard-determining components of labeling: dimethyl sulfoxide Hazard statements Combustible liquid. Harmful in contact with skin.

(Contd. on page 8)

Printing date 01/11/2024

Reviewed on 01/10/2024

#### Trade name: Ac-YVAD-CHO

(Contd. of page 7)

Precautionary statements Keep away from flames and hot surfaces. – No smoking. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. 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** 01/11/2024 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 Flammable Liquids 4: Flammable liquids – Category 4 Acute Toxicity - Dermal 4: Acute toxicity - Category 4



### Printing date 01/11/2024

Reviewed on 01/10/2024

# 1 Identification

Product identifier Trade name: <u>Caspase-Glo ® 1 Buffer</u> Article number: G994 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)

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Printing date 01/11/2024

Reviewed on 01/10/2024

Trade name: Caspase-Glo ® 1 Buffer

(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 01/11/2024

Reviewed on 01/10/2024

Trade name: Caspase-Glo ® 1 Buffer

(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):	7.6	
		(Contd. on page 4)

Printing date 01/11/2024

Reviewed on 01/10/2024

Trade name: Caspase-Glo ® 1 Buffer

		(Contd. of page
Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	0 °C (32 °F) 100 °C (212 °F) Not applicable.	
Flammability (solid, gaseous): Decomposition temperature:	Not applicable. 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):	1.01 g/cm <sup>3</sup> (8.42845 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/wat	ter): Not determined.	
Viscosity:		
Dynamic at 20 °C (68 °F):	0.0952 mPas	
Kinematic:	Not determined.	
Solvent separation test		
Water:	97.0 %	
VOC content:	0.00 %	
Solids content:	2.5 %	
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.

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#### Trade name: Caspase-Glo ® 1 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

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US

Printing date 01/11/2024

Reviewed on 01/10/2024

Trade name: Caspase-Glo ® 1 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):

127087-87-0 Nonylphenol Ethoxylate

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.

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Reviewed on 01/10/2024

Trade name: Caspase-Glo ® 1 Buffer

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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 01/11/2024 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 01/11/2024

Reviewed on 01/10/2024

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# **1** Identification

Product identifier Trade name: <u>Z-WEHD substrate</u> Article number: G991 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



Eye Irritation 2A H319 Causes serious eye irritation.

#### Label elements

*GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms* 



Signal word Warning Hazard statements Causes serious eye irritation. Precautionary statements Wash thoroughly after handling. Wear eye protection / face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

(Contd. on page 2)

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Trade name: Z-WEHD substrate

(Contd. of page 1)

1-5%

Classification system: NFPA ratings (scale 0 - 4) Health = 2Fire = 1*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = \*2= 1 Fire *Reactivity* = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Irritant **Primary route(s) of entry:** Dermal Target Organ(s): Not applicable or unknown **Other hazards** Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

# **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:**

3483-12-3 DL-Dithiothreitol

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

## 4 First-aid measures

**Description of first aid measures** 

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 eve for several minutes under running water. If symptoms persist, consult a doctor. 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.

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Printing date 01/11/2024

Reviewed on 01/10/2024

Trade name: Z-WEHD substrate

(Contd. of page 2)

Advice for firefighters No special advice.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Remove persons from danger area.
Wear protective clothing.
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.

## 7 Handling and storage

Handling:

**Precautions for safe handling** No special precautions are necessary if used correctly. **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: Keep receptacle tightly sealed. 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:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

Breathing equipment: Not required.

Protection of hands: Not required.

#### 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, (Contd. on page 4)

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### Trade name: Z-WEHD substrate

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US

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:** 

#### Safety glasses

Use equipment for eye protection tested and approved under government NIOSH standards.

#### 9 Physical and chemical properties Information on basic physical and chemical properties **General Information** Appearance: Form: Liquid Color: Colorless Odor: Not determined **Odor threshold:** Not determined. *pH-value at 20 °C (68 °F):* 7.2 Change in condition *Melting point/Melting range:* Undetermined. 100 °C (212 °F) Boiling point/Boiling range: 110 °C (230 °F) Flash point: 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. Not determined. Vapor pressure: Density at 20 °C (68 °F): 1.026 g/cm<sup>3</sup> (8.56197 lbs/gal) **Relative density** Not determined. Vapor density Not determined. **Evaporation** rate Not determined. Solubility in / Miscibility with Slightly soluble. Water: Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Not determined. Not determined. Kinematic: Solvent separation test Water: 92.7% **VOC** content: 0.00 % 7.3% Solids content: (Contd. on page 5)

Printing date 01/11/2024

Reviewed on 01/10/2024

(Contd. of page 4)

Trade name: Z-WEHD substrate

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 Sulfur oxides (SOx)

### **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: Causes skin irritation. on the eye: Irritating 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 shows the following dangers according to internally approved calculation methods for preparations: OECD test guideline 471, Ames test. Irritant

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**

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.

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<sup>-</sup> US

Printing date 01/11/2024

Reviewed on 01/10/2024

Trade name: Z-WEHD substrate

(Contd. of page 5)

Ecotoxicological effects: Remark: Not available Additional ecological information: General notes: No data available. 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 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 II of MARPOL73/78 and the IBC CodeNot 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.

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US

Printing date 01/11/2024

Reviewed on 01/10/2024

Trade name: Z-WEHD substrate

	(Contd. of page
S	ection 313 (Specific toxic chemical listings):
N	one of the ingredients are listed.
T,	SCA (Toxic Substances Control Act) Inventory:
3.	483-12-3 DL-Dithiothreitol ACTIV
H	azardous Air Pollutants
N	one of the ingredients are listed.
Р	roposition 65
	hemicals known to cause cancer:
N	one of the ingredients are listed.
	hemicals known to cause reproductive toxicity for females:
N	one of the ingredients are listed.
С	hemicals known to cause reproductive toxicity for males:
N	one of the ingredients are listed.
С	hemicals known to cause developmental toxicity:
N	one of the ingredients are listed.
N	ew Jersey Right-to-Know List:
	one of the ingredients are listed.
Р	ennsylvania Right-to-Know List:
	one of the ingredients are listed.
C	ancerogenity categories
	PA (Environmental Protection Agency)
	one of the ingredients are listed.
	LV (Threshold Limit Value)
	one of the ingredients are listed.
	IOSH-Ca (National Institute for Occupational Safety and Health)
	one of the ingredients are listed.
	HS label elements The product is classified and labeled according to the Globally Harmonized System (GHS)
S	ignal word Warning
	azard statements
	auses serious eye irritation. <b>recautionary statements</b>
	Vash thoroughly after handling.
	<i>Vear eye protection / face protection.</i>
	in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
	ontinue rinsing.
	eye irritation persists: Get medical advice/attention.
	hemical safety assessment
	ater hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
	hemical 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

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Reviewed on 01/10/2024

# Trade name: Z-WEHD substrate

	(Contd. of page 7)
2800 Woods Hollow Road	
Madison, WI	
Ph:(608)274-4330	
chemicalregulatory@promega.com	
Contact:	
Date of preparation / last revision 01/11/2024	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulation	s Concerning the
International Transport of Dangerous Goods by Rail)	
ICAO: Internation Civil Aviation Organization ADD: Accord relatifiers transport international des march andires demonstrates par neutro (European According to	- the International
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning Carriage of Dangerous Goods by Road)	; ine international
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	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
	US