03/09/2022	Kit Components
Product code	Description
V2460	Ser/Thr Phosphatase Assay System
Components:	
V248A	Ser/Thr Phosphopeptide RRA(pT)VA, Lyophilized
V250	Phoenhote Standard

V248A	Ser/Thr Phosphopeptide RRA(pT)VA, Lyophilized
V250	Phosphate Standard
V253	Molybdate Dye Solution
V254	Molybdate Dye Additive
V255	Sephadex G-25
V654	Phosphate Free Water



Page 1/7

# Safety Data Sheet acc. to OSHA HCS

Printing date 03/09/2022 Reviewed on 03/09/2022

## 1 Identification

Product identifier

Trade name: Ser/Thr Phosphopeptide RRA(pT)VA, Lyophilized

Article number: V248A

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

SDS author: chemicalregulatory@promega.com

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 substance 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 = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

OSHA 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.

(Contd. on page 2)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Ser/Thr Phosphopeptide RRA(pT)VA, Lyophilized

vPvB: Not applicable.

(Contd. of page 1)

## 3 Composition/information on ingredients

Chemical characterization: Substances

CAS No. Description

Ser/Thr Phosphopeptide RRA(pT)VA

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

Methods and material for containment and cleaning up: Pick up mechanically.

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 measures required.

Information about protection against explosions and fires: The product is not flammable.

(Contd. on page 3)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Ser/Thr Phosphopeptide RRA(pT)VA, Lyophilized

(Contd. of page 2)

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: Not required. 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:

Not required.

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

## Material of gloves

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.

Eye protection: Not required.

# 9 Physical and chemical properties

Information on basic physical and	chemical properties
General Information	
Appearance:	
Form:	Powder
Color:	Whitish
Odor:	Not determined
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	•
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.

(Contd. on page 4)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Ser/Thr Phosphopeptide RRA(pT)VA, Lyophilized

(Contd. of page 3)

Density at 20 °C (68 °F):1 g/cm³ (8.345 lbs/gal)Relative densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.

Solubility in / Miscibility with

Water: Soluble.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic:Not applicable.Kinematic:Not applicable.

VOC content: 0.00 %

Solids content: 100.0 %

*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:** 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

Additional toxicological information: The substance is not subject to classification.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

Substance is not listed.

NTP (National Toxicology Program)

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

US

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Ser/Thr Phosphopeptide RRA(pT)VA, Lyophilized

(Contd. of page 4)

# 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.

Not hazardous for transportation Not applicable
None Not applicable
None
Not applicable
None Not applicable
Not applicable.
Not applicable.

(Contd. on page 6)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Ser/Thr Phosphopeptide RRA(pT)VA, Lyophilized

(Contd. of page 5)

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):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act) Inventory:

Substance is not listed.

Hazardous Air Pollutants

Substance is not listed.

**Proposition 65** 

Chemicals known to cause cancer:

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

New Jersey Right-to-Know List:

Substance is not listed.

Pennsylvania Right-to-Know List:

Substance is not listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value)

Substance is not listed.

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

Substance is not 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.

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Ser/Thr Phosphopeptide RRA(pT)VA, Lyophilized

(Contd. of page 6)

# 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:

Promega Corporation

Chemical Regulatory Department

2800 Woods Hollow Road

Madison, WI

Ph:(608)274-4330

Toll-Free: (800) 356-9526

chemicalregulatory@promega.com

## Date of preparation / last revision 03/09/2022 / 2.0

## Abbreviations and acronyms:

 $ADR: Accord\ relatif\ au\ transport\ international\ des\ marchandises\ dangereuses\ par\ route\ (European\ Agreement\ Concerning\ the\ International\ Concerning\ the\ Concern$ 

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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-



Page 1/7

# Safety Data Sheet acc. to OSHA HCS

Printing date 03/09/2022 Reviewed on 03/09/2022

# 1 Identification

Product identifier

Trade name: Phosphate Standard

Article number: V250

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

SDS author: chemicalregulatory@promega.com

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 = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

OSHA 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.

(Contd. on page 2)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Standard

vPvB: Not applicable.

(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.

US ·

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Standard

(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:

Not required.

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

## Material of gloves

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.

pH-value at 20 °C (68 °F): 3-10

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.

(Contd. on page 4)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Standard

		(Contd. of page
Decomposition temperature:	Not determined.	
Auto igniting:	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):	0.997 g/cm³ (8.31997 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	ater): Not determined.	
Viscosity:		
Dynamic at 20 °C (68 °F):	0.0952 mPas	
Kinematic:	Not determined.	
Solvent separation test		
Water:	100.0 %	
VOC content:	0.00 %	
Solids content:	0.0 %	
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:** 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 Additional toxicological information:

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

preparations:

(Contd. on page 5)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Standard

(Contd. of page 4)

## 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.

1470	, •	C	
14 Trans	port in	tormai	non

UN-Number	Not hazardous for transportation
DOT, ADR, ADN, IMDG, IATA	Not applicable
UN proper shipping name	None
DOT, ADR, ADN, IMDG, IATA	Not applicable

(Contd. on page 6)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Standard

		(Contd. of page 5
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 ingredients are listed.

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 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Standard

(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:

Promega Corporation

Chemical Regulatory Department

2800 Woods Hollow Road

Madison, WI Ph:(608)274-4330

Toll-Free: (800) 356-9526

chemicalregulatory@promega.com

Date of preparation / last revision 03/09/2022 / 3.0

#### 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



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# Safety Data Sheet acc. to OSHA HCS

Printing date 03/09/2022 Reviewed on 03/09/2022

## 1 Identification

Product identifier

Trade name: Molybdate Dye Solution

Article number: V253

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

SDS author: chemicalregulatory@promega.com

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



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Label elements

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



GHS05

Signal word Danger

Hazard-determining components of labeling:

hydrogen chloride

Hazard statements

Causes severe skin burns and eye damage.

Precautionary statements

Do not breathe dusts or mists.

(Contd. on page 2)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Solution

(Contd. of page 1)

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Classification system:

### NFPA ratings (scale 0 - 4)

Health = 3

Fire = 0

Reactivity = 0

## HMIS-ratings (scale 0 - 4)

Health = \*3

Fire = 0

Reactivity = 0

## OSHA Hazard Overview (Criteria according to 29CFR1910.1200):

Toxic

Highly Toxic

Corrosive

### Primary route(s) of entry:

Dermal Inhalation

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:	
7647-01-0 hydrogen chloride	5-10%
12027-67-7 Molybdate, ammonium (1:6)	1-5%
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.* 

Seek medical treatment.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)

(Contd. of page 2)

# Safety Data Sheet acc. to OSHA HCS

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Solution

After skin contact:

*Immediately wash with water and soap and rinse thoroughly.* 

If skin irritation continues, consult a doctor.

After eye contact: Call a doctor immediately.

After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

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 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:

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).

Use neutralizing agent.

Dispose contaminated material as waste according to Section 13.

Ensure adequate ventilation.

## 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

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about protection against explosions and fires: The product is not flammable.

(Contd. on page 4)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Solution

(Contd. of page 3)

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:

Store away from metals.

Store away from flammable substances.

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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

#### 7647-01-0 hydrogen chloride

PEL Ceiling limit value: 7 mg/m³, 5 ppm REL Ceiling limit value: 7 mg/m³, 5 ppm TLV Ceiling limit value: 2 ppm

A4

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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

# Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

#### Material of gloves

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:

Tightly sealed goggles

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

US

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Solution

(Contd. of page 4)

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Fluid	
Color:	Amber colored	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	1.8	
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.	
Decomposition temperature:	Not determined.	
Auto igniting:	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):	1.02885 g/cm³ (8.58575 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:	Not determined.	
Kinematic:	Not determined.	
Solvent separation test		
Water:	93.1 %	
VOC content:	0.00 %	
Solids content:	1.3 %	
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 alkali (lyes).

Reacts with various metals.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

(Contd. on page 6)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Solution

Hazardous decomposition products:

Chlorine

Carbon monoxide and carbon dioxide

(Contd. of page 5)

# 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: Caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Sensitization:

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.

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories

## IARC (International Agency for Research on Cancer)

7647-01-0 hydrogen chloride

3

## 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:

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Results of PBT and vPvB assessment

**PBT:** Not applicable.

(Contd. on page 7)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Solution

vPvB: Not applicable.

Other adverse effects No further relevant information available.

(Contd. of page 6)

# 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, IMDG, IATA UN1789

UN proper shipping name

**DOT** Hydrochloric acid solution

ADR 1789 HYDROCHLORIC ACID solution IMDG, IATA HYDROCHLORIC ACID solution

## Transport hazard class(es)

DOT



*Class* 8 *Corrosive substances* 

Label 8

*ADR* 



Class 8 (C1) Corrosive substances

Label

IMDG, IATA



Class 8 Corrosive substances
Label 8

(Contd. on page 8)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Solution

	(Contd. of p
Packing group	
DOT, ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code)	
EMS Number:	F- $A$ , $S$ - $B$
Stowage Category	A
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E2
· · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
- · · · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1789 HYDROCHLORIC ACID SOLUTION, 8, II

7 F			C	
15 120	CIII (III	OWN IN	town	101
IJMe	24444	orv in	tormai	

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

Section 355	(extremely	y hazardous	substances):
Deciron 555	CALL CHICK	musum mons	substances,.

7647-01-0 hydrogen chloride

## Section 313 (Specific toxic chemical listings):

7647-01-0 hydrogen chloride

## TSCA (Toxic Substances Control Act) Inventory:

7647-01-0 hydrogen chloride

12027-67-7 Molybdate, ammonium (1:6)

# Hazardous Air Pollutants

7647-01-0 hydrogen chloride

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.

(Contd. on page 9)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Solution

(Contd. of page 8)

## Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

# New Jersey Right-to-Know List:

7647-01-0 hydrogen chloride

## Pennsylvania Right-to-Know List:

7647-01-0 hydrogen chloride

### Cancerogenity categories

### EPA (Environmental Protection Agency)

None of the ingredients are listed.

### TLV (Threshold Limit Value)

7647-01-0 hydrogen chloride

A4

# 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 Danger

## Hazard-determining components of labeling:

hydrogen chloride

## Hazard statements

Causes severe skin burns and eye damage.

### Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

*Immediately call a poison center/doctor.* 

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

(Contd. on page 10)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Solution

(Contd. of page 9)

### Contact:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI

Ph:(608)274-4330

Toll-Free: (800) 356-9526

chemicalregulatory@promega.com

Date of preparation / last revision 03/09/2022 / 7.0

## 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

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Čategory 1

-US



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# Safety Data Sheet acc. to OSHA HCS

Printing date 03/09/2022 Reviewed on 03/09/2022

# 1 Identification

Product identifier

Trade name: Molybdate Dye Additive

Article number: V254

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

SDS author: chemicalregulatory@promega.com

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



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

### Label elements

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



GHS05

Signal word Danger

### Hazard-determining components of labeling:

Poly(oxy-1,2-ethanedyl), alpha-(nonylphenyl)-omega-hydroxy-

Hazard statements

Causes serious eye damage.

## Precautionary statements

Wear eye protection / face protection.

(Contd. on page 2)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Additive

(Contd. of page 1)

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

Classification system:

NFPA ratings (scale 0 - 4)

Health = 3

Fire = 1Reactivity = 0

HMIS-ratings (scale 0 - 4)

*Health* = \*3 *Fire* = 1

Reactivity = 0

OSHA Hazard Overview (Criteria according to 29CFR1910.1200):

**Toxic** 

Highly Toxic

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:

9016-45-9 Poly(oxy-1,2-ethanedyl), alpha-(nonylphenyl)-omega-hydroxy-

5-10%

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 eye 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.

US

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Additive

(Contd. of page 2)

## 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 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).

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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.

(Contd. on page 4)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Additive

(Contd. of page 3)

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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:** Protective gloves

### Material of gloves

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.

Information on basic physical and	chemical properties	
General Information		
Appearance:	F1 · 1	
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	5.5	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	>93 °C (>199.4 °F)	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	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):	1.009 g/cm³ (8.42011 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	•	
Viscosity:	,	
Dynamic:	Not determined.	
Kinematic:	Not determined.	

(Contd. on page 5)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Additive

Solvent separation test
Water: 87.5 %
VOC content: 0.00 %

Solids content: 7.5 %

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: Causes skin irritation. on the eye: Irritating effect.

Sensitization:

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

**Toxicity** 

Aquatic toxicity: Not harmful to the aquatic environment

Persistence and degradability

Not available

No further relevant information available.

(Contd. on page 6)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Additive

(Contd. of page 5)

## 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.

UN-Number	Not hazardous for transportation
DOT, ADR, ADN, IMDG, IATA	Not applicable
UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Not applicable
Packing group	
DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of	ſ
MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Not applicable

US

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Additive

(Contd. of page 6)

## 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):

9016-45-9 Poly(oxy-1,2-ethanedyl), alpha-(nonylphenyl)-omega-hydroxy-

## TSCA (Toxic Substances Control Act) Inventory:

All ingredients are listed.

#### 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.

## 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** Danger

#### Hazard-determining components of labeling:

Poly(oxy-1,2-ethanedyl), alpha-(nonylphenyl)-omega-hydroxy-

#### Hazard statements

Causes serious eye damage.

## Precautionary statements

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.

Immediately call a poison center/doctor.

National regulations: No information available

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

(Contd. on page 8)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Molybdate Dye Additive

(Contd. of page 7)

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:

Promega Corporation

Chemical Regulatory Department

2800 Woods Hollow Road

Madison, WI

Ph:(608)274-4330

Toll-Free: (800) 356-9526

chemicalregulatory@promega.com

## Date of preparation / last revision 03/09/2022 / 3.0

### 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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

US



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# Safety Data Sheet acc. to OSHA HCS

Printing date 03/09/2022 Reviewed on 03/09/2022

## 1 Identification

Product identifier

Trade name: Sephadex G-25

Article number: V255

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

SDS author: chemicalregulatory@promega.com

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 = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

OSHA 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.

(Contd. on page 2)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Sephadex G-25

vPvB: Not applicable.

(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.

US ·

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Sephadex G-25

(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:

Not required.

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

#### Material of gloves

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: Liquid
Color: Colorless
Odor: Not determined
Odor threshold: Not determined.

pH-value at 20 °C (68 °F): 7.5

Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Flash point:

Undetermined.
100 °C (212 °F)
Not applicable.

Flammability (solid, gaseous): Not applicable.

(Contd. on page 4)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Sephadex G-25

		(Contd. of page
Decomposition temperature:	Not determined.	
Auto igniting:	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):	1.043 g/cm³ (8.70384 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	ater): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent separation test		
Water:	49.9 %	
VOC content:	0.00 %	
Solids content:	50.1 %	
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:** 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 Additional toxicological information:

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

preparations:

(Contd. on page 5)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Sephadex G-25

(Contd. of page 4)

#### 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.

140	,			
141	ransport	unit	ormai	ton

UN-Number	Not hazardous for transportation
DOT, ADR, ADN, IMDG, IATA	Not applicable
UN proper shipping name	None
DOT, ADR, ADN, IMDG, IATA	Not applicable

(Contd. on page 6)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Sephadex G-25

	(Contd. of page 5
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 Code	r Not applicable.
UN "Model Regulation":	Not applicable

4 4 5			
15 Ro	aulator	ry infor	mation
13 ME	guiuioi	v uujui	muuuvu

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 ingredients are listed.

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:

26628-22-8 sodium azide

Pennsylvania Right-to-Know List:

26628-22-8 sodium azide

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

(Contd. on page 7)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Sephadex G-25

(Contd. of page 6)

#### TLV (Threshold Limit Value)

26628-22-8 sodium azide

A4: Not classifiable as human carcinogen

### 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:

Promega Corporation

Chemical Regulatory Department

2800 Woods Hollow Road

Madison, WI

Ph:(608)274-4330 Toll-Free: (800) 356-9526

chemicalregulatory@promega.com

Date of preparation / last revision 03/09/2022 / 3.0

#### 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



Page 1/7

Printing date 03/09/2022

Reviewed on 03/09/2022

### 1 Identification

Product identifier

Trade name: Phosphate Free Water

Article number: V654 CAS Number: 7732-18-5

**EC number:** 231-791-2

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

SDS author: chemicalregulatory@promega.com

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 substance 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 = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable

Target Organ(s): Not applicable or unknown

(Contd. on page 2)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Free Water

Other hazards

Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

(Contd. of page 1)

### 3 Composition/information on ingredients

Chemical characterization: Substances

*CAS No. Description* 7732-18-5 water *EC number:* 231-791-2

# 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.

US ·

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Free Water

(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: Not required. 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:

Not required.

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

Material of gloves

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.

Eye protection: Not required.

#### 9 Physical and chemical properties

General Information	• •	
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Odorless	
Odor threshold:	Not determined.	
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.	
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	

(Contd. on page 4)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Free Water

(Contd. of page 3)

**Explosion limits:** Lower: Not determined. Upper: Not determined. Not determined. Vapor pressure: *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): Not determined. Viscosity: *Dynamic at 20 °C (68 °F):* 0.0952 mPas Kinematic: Not determined. 100.0 % Water: **VOC** content: 0.00%Solids content: 0.0% 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:* 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

Additional toxicological information: The substance is not subject to classification.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

Substance is not listed.

NTP (National Toxicology Program)

Substance is not listed.

(Contd. on page 5)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Free Water

(Contd. of page 4)

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

Substance is not 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
	TINE NE 1

UN-Number	Not hazardous for transportation
DOT, ADR, ADN, IMDG, IATA	Not applicable
UN proper shipping name	None
DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	None
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group	None
DOT, ADR, IMDG, IATA	Not applicable

(Contd. on page 6)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Free Water

(Contd. of page 5)

Environmental hazards:

Marine pollutant: No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

UN "Model Regulation": Not applicable

## 15 Regulatory information

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

Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act) Inventory:

Substance is listed.

Hazardous Air Pollutants

Substance is not listed.

**Proposition 65** 

Chemicals known to cause cancer:

Substance is not listed.

Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

New Jersey Right-to-Know List:

Substance is not listed.

Pennsylvania Right-to-Know List:

Substance is not listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

Substance is not listed.

TLV (Threshold Limit Value)

Substance is not listed.

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

Substance is not listed.

GHS label elements Not applicable

Signal word Not applicable

Hazard statements Not applicable

(Contd. on page 7)

Printing date 03/09/2022 Reviewed on 03/09/2022

Trade name: Phosphate Free Water

(Contd. of page 6)

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

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Ph:(608)274-4330

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Toll-Free: (800) 356-9526

chemical regulatory @promega.com

#### Date of preparation / last revision 03/09/2022 / 4.0

#### 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

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

LIC