12/29/2023	Kit Components
Product code	Description
MD1370	MagneSil® ONE, Fixed Yield Blood Genomic System
Components:	
A826	Lysis Buffer
A827	2X Wash Buffer

Elution Buffer, Blood

MagneSil® PMPs - Fixed Yield

Anti-Foam Reagent

MD142

MD143

MD145



Page 1/10

## Safety Data Sheet acc. to OSHA HCS

Printing date 12/29/2023 Reviewed on 12/28/2023

## 1 Identification

Product identifier

Trade name: Lysis Buffer Article number: A826

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



GHS05 Corrosion

Skin Corrosion 1C H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.



GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed. Acute Toxicity - Inhalation 4 H332 Harmful if inhaled.

Label elements

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





GHS05 GHS07

Signal word Danger

Hazard-determining components of labeling:

guanidinium thiocyanate

(Contd. on page 2)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Lysis Buffer

(Contd. of page 1)

Polyethylene glycol tert-octylphenyl ether

#### Hazard statements

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

#### Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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

If swallowed: Call a poison center/doctor if you feel unwell.

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

*Irritant* 

#### Primary route(s) of entry:

Dermal

Inhalation

Oral

## Target Organ(s):

May affect Nervous system (Neurotoxin)

May cause Kidney damage (Nephrotoxin)

Risk of damage to eyes

Affects Gastrointestinal System

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.

(Contd. on page 3)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Lysis Buffer

Contd. of page 2)Dangerous components:593-84-0guanidinium thiocyanate50-75%9036-19-5Polyethylene glycol tert-octylphenyl ether1-5%75621-03-33-[(3-Choalamidopropryl)dimethylammonio]propanesulfonic acid1-5%

**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.

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

Take affected persons out into the fresh air.

#### After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

*In case of unconsciousness place patient stably in side position for transportation.* 

Seek medical treatment in case of complaints.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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

After swallowing: Seek immediate 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 In the case of fire, wear respiratory protective equipment and chemical protective suit.

**Protective equipment:** Mouth respiratory protective device.

#### 6 Accidental release measures

## Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Remove persons from danger area.

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

(Contd. on page 4)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Lysis Buffer

(Contd. of page 3)

### **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

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:

Keep respiratory protective device available.

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: 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 skin.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

Clean skin thoroughly immediately after handling the product.

#### 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:** 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

(Contd. on page 5)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Lysis Buffer

(Contd. of page 4)

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:

Tightly sealed goggles

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

Information on basic physical and che	mical properties	
General Information		
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	6.8-7	
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.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.12 g/cm³ (9.3464 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent separation test		
Water:	44.3 %	
VOC content:	0.00 %	
Solids content:	55.7 %	

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Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Lysis Buffer

(Contd. of page 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:

Exposure to strong acid will result in the generation of toxic gases

Exposure to bleach may result in the generation of toxic gas

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:

## 593-84-0 guanidinium thiocyanate

Oral	LD50	475 mg/kg (Rat)
		By analogy to guanidine hydrochloride
Dermal	LD50	>2,000 mg/kg (Rabbit)
		By analogy to Guanidine hydrochloride.

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Causes serious eye damage.

Sensitization: Sensitization possible through inhalation.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

OECD test guideline 471, Ames test.

Harmful 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

(Contd. on page 7)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Lysis Buffer

(Contd. of page 6)

### 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:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

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.

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UN-Number	
DOT, ADR, IMDG, IATA	UN1760

UN proper shipping name

**DOT** Corrosive liquid, n.o.s. solution

ADR 1760 CORROSIVE LIQUID, N.O.S. solution IMDG, IATA CORROSIVE LIQUID, N.O.S. solution

Transport hazard class(es)

DOT



*Class* 8 Corrosive substances

(Contd. on page 8)

(Contd. of page 7)

## Safety Data Sheet acc. to OSHA HCS

Reviewed on 12/28/2023 Printing date 12/29/2023

Trade name: Lysis Buffer

Label ADR Class 8 (C9) Corrosive substances Label 8 IMDG, IATA Class 8 Corrosive substances Label Packing group DOT, ADR, IMDG, IATA IIEnvironmental hazards: Not applicable. Warning: Corrosive substances Special precautions for user

Transport in bulk according to Annex II of

Hazard identification number (Kemler code): 80

MARPOL73/78 and the IBC Code *Not applicable.* 

Transport/Additional information:

EMS Number:

Stowage Category Stowage Code

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) 1LExcepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN 1760 CORROSIVE LIQUID, N.O.S. SOLUTION, 8, II

F-A,S-B

SW2 Clear of living quarters.

## 15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

(Contd. on page 9)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Lysis Buffer

(Contd. of page 8) Section 313 (Specific toxic chemical listings): None of the ingredients are listed. TSCA (Toxic Substances Control Act) Inventory: *ACTIVE* 593-84-0 guanidinium thiocyanate 9036-19-5 Polyethylene glycol tert-octylphenyl ether ACTIVE Hazardous Air Pollutants None of the ingredients are listed. **Proposition 65** Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed. Chemicals known to cause developmental toxicity: None of the ingredients are listed. New Jersey Right-to-Know List: None of the ingredients are listed. Pennsylvania Right-to-Know List: None of the ingredients are listed.

### 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:

guanidinium thiocyanate

Polyethylene glycol tert-octylphenyl ether

#### Hazard statements

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

#### Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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

If swallowed: Call a poison center/doctor if you feel unwell.

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.

(Contd. on page 10)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Lysis Buffer

(Contd. of page 9)

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.

Chemical safety assessment

Water hazard class: Water hazard class 2 (Self-assessment): 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 12/29/2023

#### 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

Acute Toxicity - Oral 4: Acute toxicity - Category 4

Skin Corrosion 1C: Skin corrosion/irritation – Category 1C

Eye Damage 1: Serious eye damage/eye irritation – Category 1

- US



Page 1/7

## Safety Data Sheet acc. to OSHA HCS

Printing date 12/29/2023 Reviewed on 12/27/2023

## 1 Identification

Product identifier

Trade name: 2X Wash Buffer

Article number: A827

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 = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0Fire = 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. **vPvB:** Not applicable.

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: 2X Wash 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.

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.

HS

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: 2X Wash 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.

**Eve 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):

(Contd. on page 4)

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: 2X Wash Buffer

	(Contd. of pag
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.
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):	1.006 g/cm³ (8.39507 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic at 20 °C (68 °F):	0.0952 mPas
Kinematic:	Not determined.
Solvent separation test	
Water:	98.8 %
VOC content:	0.00 %
Solids content:	1.2 %
Other information	No further relevant information available.

## 10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

*Incompatible materials:* No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification: No data available

**Primary irritant effect: on the skin:** No irritant effect.

on the eye: No irritating effect.

(Contd. on page 5)

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: 2X Wash 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 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.

- 11

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: 2X Wash Buffer

(Contd. of page 5)

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 Code	r Not applicable.
UN "Model Regulation":	Not applicable

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

Section	355	(extremely	hazardous	substances):

None of the ingredients are listed.

## Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

## TSCA (Toxic Substances Control Act) Inventory:

All components have the value ACTIVE.

#### Hazardous Air Pollutants

None of the ingredients are listed.

### **Proposition 65**

## Chemicals known to cause cancer:

None of the ingredients are listed.

## Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

## Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

## New Jersey Right-to-Know List:

None of the ingredients are listed.

## Pennsylvania Right-to-Know List:

None of the ingredients are listed.

(Contd. on page 7)

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: 2X Wash Buffer

(Contd. of page 6)

### Cancerogenity categories

#### EPA (Environmental Protection Agency)

None of the ingredients are listed.

#### TLV (Threshold Limit Value)

None of the ingredients are listed.

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

None of the ingredients are listed.

GHS label elements Not applicable

Signal word Not applicable

Hazard statements Not applicable

Chemical safety assessment

Water hazard class: Generally not hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

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

#### Department issuing SDS:

Promega Corporation

Chemical Regulatory Department

2800 Woods Hollow Road

Madison, WI

Ph:(608)274-4330

chemicalregulatory@promega.com

#### Contact:

### Date of preparation / last revision 12/29/2023

#### 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



Page 1/7

## Safety Data Sheet acc. to OSHA HCS

Printing date 12/29/2023 Reviewed on 12/27/2023

## 1 Identification

Product identifier

Trade name: Elution Buffer, Blood

Article number: MD142

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 = 0

HMIS-ratings (scale 0 - 4)

Health = 0 Fire = 0Reactivity = 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. **vPvB:** Not applicable.

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: Elution Buffer, Blood

(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.

HS

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: Elution Buffer, Blood

(Contd. of page 2)

## 7 Handling and storage

Handling:

**Precautions for safe handling** No special measures required.

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

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Do not store below -20°C. Protected from light.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

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

## 8 Exposure controls/personal protection

#### Control parameters

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

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

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

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands:

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

#### Material of gloves

Gloves impermeable to the specific chemical substance.

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

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

**Eve protection:** Not required.

## 9 Physical and chemical properties

Information on basic physical and chemical properties

**General Information** 

Appearance:

Form: Fluid
Color: Colorless
Odor: Not determined
Odor threshold: Not determined.

*pH-value at 20 °C (68 °F):* 8.5

(Contd. on page 4)

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: Elution Buffer, Blood

		(Contd. of pag
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.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	0.996 g/cm³ (8.31162 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:		
<i>Dynamic at 20 °C (68 °F):</i>	0.0952 mPas	
Kinematic:	Not determined.	
Solvent separation test		
Water:	100.0 %	
VOC content:	0.00 %	
Solids content:	0.2 %	
Other information	No further relevant information available.	

## 10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

*Incompatible materials:* No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification: No data available

Primary irritant effect:

on the skin: No irritant effect. on the eye: No irritating effect.

(Contd. on page 5)

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: Elution Buffer, Blood

(Contd. of page 4)

#### Sensitization:

In case of skin contact: not sensitising In case of inhalation: not sensitising Additional toxicological information:

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

## Carcinogenic categories

### IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

## NTP (National Toxicology Program)

None of the ingredients are listed.

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

None of the ingredients are listed.

## 12 Ecological information

**Toxicity** 

Aquatic toxicity: Not harmful to the aquatic environment

Persistence and degradability

Not available

No further relevant information available.

#### Bioaccumulative potential

Not known

No further relevant information available.

*Mobility in soil* No further relevant information available.

Ecotoxicological effects: Remark: Not available

Additional ecological information:

**General notes:** Not available.

Not known to be hazardous to water.

Results of PBT and vPvB assessment

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

Other adverse effects No further relevant information available.

## 13 Disposal considerations

### Waste treatment methods

#### Recommendation:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

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

- 11:

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: Elution Buffer, Blood

(Contd. of page 5)

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

None of the ingredients are listed.

## Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

## TSCA (Toxic Substances Control Act) Inventory:

All components have the value ACTIVE.

#### Hazardous Air Pollutants

None of the ingredients are listed.

#### **Proposition 65**

## Chemicals known to cause cancer:

None of the ingredients are listed.

## Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

## Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

## New Jersey Right-to-Know List:

None of the ingredients are listed.

## Pennsylvania Right-to-Know List:

None of the ingredients are listed.

(Contd. on page 7)

Printing date 12/29/2023 Reviewed on 12/27/2023

Trade name: Elution Buffer, Blood

(Contd. of page 6)

#### Cancerogenity categories

#### EPA (Environmental Protection Agency)

None of the ingredients are listed.

#### TLV (Threshold Limit Value)

None of the ingredients are listed.

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

None of the ingredients are listed.

GHS label elements Not applicable

Signal word Not applicable

Hazard statements Not applicable

Chemical safety assessment

Water hazard class: Generally not hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

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

#### Department issuing SDS:

Promega Corporation

Chemical Regulatory Department

2800 Woods Hollow Road

Madison, WI

Ph:(608)274-4330

chemicalregulatory@promega.com

#### Contact:

### Date of preparation / last revision 12/29/2023

#### 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



Page 1/8

## Safety Data Sheet acc. to OSHA HCS

Printing date 12/29/2023 Reviewed on 12/28/2023

## 1 Identification

Product identifier

Trade name: Anti-Foam Reagent

Article number: MD143

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 = 0

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0Fire = 1

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. **vPvB:** Not applicable.

- U

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Anti-Foam Reagent

(Contd. of page 1)

## 3 Composition/information on ingredients

CAS No. Description

Antifoam A Emulsion

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:

7440-21-3 silicon, containing more than 99.99 per centby weight of silicon

25-50%

## 4 First-aid measures

Description of first aid measures

General information: No special measures required.

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

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

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

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

Information for doctor:

Most important symptoms and effects, both acute and delayed

None

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

None known

No further relevant information available.

Advice for firefighters No special advice.

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

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

**Environmental precautions:** 

Dilute with plenty of water.

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

Methods and material for containment and cleaning up:

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

Reference to other sections

See Section 7 for information on safe handling.

See Section 13 for disposal information.

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Anti-Foam Reagent

(Contd. of page 2)

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Do not store below -20°C. Protected from light.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

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

## 8 Exposure controls/personal protection

#### Control parameters

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

### 7440-21-3 silicon, containing more than 99.99 per centby weight of silicon

PEL Long-term value: 15\*5\*\* mg/m³
\*total dust \*\*respirable fraction

REL Long-term value: 10\* 5\*\* mg/m³ \*total dust \*\*respirable fraction

TLV TLV withdrawn

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

#### Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:** Not required.

### Protection of hands:

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

#### Material of gloves

Gloves impermeable to the specific chemical substance.

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

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

Eye protection: Not required.

## 9 Physical and chemical properties

Information on basic physical and chemical properties

**General Information** 

Appearance:

Form: Fluid

(Contd. on page 4)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Anti-Foam Reagent

	(Contd. of pag
Color:	Colorless
Odor:	Not determined
Odor threshold:	Not determined.
pH-value at 20 °C (68 °F):	3
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	101 °C (213.8 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	•
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	1.399 g/cm³ (11.67466 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent separation test	
Water:	70.0 %
VOC content:	0.00 %
Other information	No further relevant information available.

## 10 Stability and reactivity

**Reactivity** No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions

Reacts with strong oxidizing agents.

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

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Anti-Foam Reagent

(Contd. of page 4)

## 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:

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.

 ${\it Other\ adverse\ effects\ No\ further\ relevant\ information\ available}.$ 

## 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.

(Contd. on page 6)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Anti-Foam Reagent

(Contd. of page 5)

Uncleaned packagings:

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

4 Transport information	
UN-Number DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Not applicable
UN proper shipping name 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 Code	p <b>f</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 (ext	remely haz	ardous s	ubstances):

None of the ingredients are listed.

### Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

### TSCA (Toxic Substances Control Act) Inventory:

All components have the value ACTIVE.

### Hazardous Air Pollutants

None of the ingredients are listed.

## **Proposition 65**

#### Chemicals known to cause cancer:

None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

(Contd. on page 7)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Anti-Foam Reagent

(Contd. of page 6)

#### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### New Jersey Right-to-Know List:

7440-21-3 silicon, containing more than 99.99 per centby weight of silicon

## Pennsylvania Right-to-Know List:

7440-21-3 silicon, containing more than 99.99 per centby weight of silicon

#### Cancerogenity categories

#### EPA (Environmental Protection Agency)

None of the ingredients are listed.

#### TLV (Threshold Limit Value)

None of the ingredients are listed.

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

None of the ingredients are listed.

GHS label elements Not applicable

Signal word Not applicable

Hazard statements Not applicable

Chemical safety assessment

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

## 16 Other information

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

#### Department issuing SDS:

Promega Corporation

Chemical Regulatory Department

2800 Woods Hollow Road

Madison, WI

Ph:(608)274-4330

chemicalregulatory@promega.com

#### Contact:

### Date of preparation / last revision 12/29/2023

#### 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

(Contd. on page 8)

Printing date 12/29/2023 Reviewed on 12/28/2023

Trade name: Anti-Foam Reagent

OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

(Contd. of page 7)



Page 1/7

## Safety Data Sheet acc. to OSHA HCS

Printing date 12/29/2023 Reviewed on 12/29/2023

## 1 Identification

Product identifier

Trade name: MagneSil® PMPs - Fixed Yield

Article number: MD145

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 = 0

HMIS-ratings (scale 0 - 4)

Health = 0 Fire = 0Reactivity = 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. **vPvB:** Not applicable.

Printing date 12/29/2023 Reviewed on 12/29/2023

Trade name: MagneSil® PMPs - Fixed Yield

(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:

1309-37-1 diiron trioxide

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

General information: No special measures required.

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

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

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

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

Information for doctor:

Most important symptoms and effects, both acute and delayed

None

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

None known

No further relevant information available.

Advice for firefighters No special advice.

Protective equipment: No special measures required.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

#### **Environmental precautions:**

Dilute with plenty of water.

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

### Methods and material for containment and cleaning up:

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

Reference to other sections

See Section 7 for information on safe handling.

See Section 13 for disposal information.

Printing date 12/29/2023 Reviewed on 12/29/2023

Trade name: MagneSil® PMPs - Fixed Yield

(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.

Material of gloves

Gloves impermeable to the specific chemical substance.

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

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

Eye protection: Not required.

## 9 Physical and chemical properties

Information on basic physical and chemical properties

**General Information** 

Appearance:

Form: Fluid
Color: Colorless
Odor: Not determined
Odor threshold: Not determined.

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100 °C (212 °F)

(Contd. on page 4)

Printing date 12/29/2023 Reviewed on 12/29/2023

Trade name: MagneSil® PMPs - Fixed Yield

	(Contd. of page 3
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Auto igniting:	>370 °C (>698 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water).	: Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent separation test	
Water:	82.5 %
VOC content:	0.00 %
Other information	No further relevant information available.

## 10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known. Conditions to avoid No further relevant information available.

*Incompatible materials:* No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification: No data available

Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect.

Sensitization:

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

(Contd. on page 5)

Reviewed on 12/29/2023 Printing date 12/29/2023

Trade name: MagneSil® PMPs - Fixed Yield

(Contd. of page 4)

### Additional toxicological information:

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

nic categories	
ernational Agency for Research on Cancer)	
silicon dioxide	3
diiron trioxide	3
onal Toxicology Program)	
e ingredients are listed.	
(Occupational Safety & Health Administration)	
e ingredients are listed.	
	silicon dioxide diiron trioxide onal Toxicology Program) e ingredients are listed. (Occupational Safety & Health Administration)

## 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
DOT, ADR, ADN, IMDG, IATA	Not applicable

(Contd. on page 6)

Printing date 12/29/2023 Reviewed on 12/29/2023

Trade name: MagneSil® PMPs - Fixed Yield

1309-37-1 diiron trioxide

		(Contd. of page
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	

	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.		
1	TSCA (Toxic Substances Control Act) Inventory:		
2	All components have the value ACTIVE.		
1	Hazardous Air Pollutants		
1	None of the ingredients are listed.		
Ì	Proposition 65		
(	Chemicals known to cause cancer:		
1	None of the ingredients are listed.		
(	Chemicals known to cause reproductive toxicity for females:		
1	None of the ingredients are listed.		
(	Chemicals known to cause reproductive toxicity for males:		
1	None of the ingredients are listed.		
(	Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.			
1	New Jersey Right-to-Know List:		
	1309-37-1 diiron trioxide		

Printing date 12/29/2023 Reviewed on 12/29/2023

Trade name: MagneSil® PMPs - Fixed Yield

(Contd. of page 6)

#### Cancerogenity categories

#### EPA (Environmental Protection Agency)

None of the ingredients are listed.

#### TLV (Threshold Limit Value)

1309-37-1 diiron trioxide

A4

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

None of the ingredients are listed.

GHS label elements Not applicable

Signal word Not applicable

Hazard statements Not applicable

National regulations: No information available

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

## 16 Other information

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

### Department issuing SDS:

Promega Corporation

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#### Contact:

### Date of preparation / last revision 12/29/2023

#### 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

HS