

11/13/2019

**Kit components**

Product code	Description
<b>DC6700</b>	<b>DNA IQ™ System</b>

Components:

A825	Resin
A826	Lysis Buffer
AX518A	Alcohol Wash, Blood, Custom
A828	Elution Buffer



**Safety Data Sheet**  
*acc. to OSHA HCS*

Printing date 11/13/2019

Revision: 11/13/2019

**1 Identification**

**Product identifier**

**Trade name:** Resin

**Article number:** A825

**Application of the substance / the preparation:** Laboratory chemicals

**Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Promega Corporation  
2800 Woods Hollow Road  
Madison, WI 53711  
U.S.A.  
1-608-274-4330  
1-800-356-9526

SDS author: [Regulatory.Affairs@promega.com](mailto:Regulatory.Affairs@promega.com)

**Further information obtainable from:**

Promega UK  
Delta House  
Southampton Science Park  
Southampton SO16 7NS  
United Kingdom  
Tel: (44) 23 8076 0225  
Fax: (44) 23 8076 7014  
Freephone: 0800 378994  
E-mail Address: [ukcustserve@promega.com](mailto:ukcustserve@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). Within UK +(44)-870-8200418.

**2 Hazard(s) identification**

**Classification of the substance or mixture**

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

**Label elements**

**GHS label elements** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

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### 3 Composition/information on ingredients

**Chemical characterisation:** Mixtures

**Description:**

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances.

**Components:**

1309-37-1	iron trioxide	1-5%
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**Additional information:** For the wording of the listed hazard 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:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture**

None known

No further relevant information available.

**Advice for firefighters** No special advice.

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

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:**

Dilute with plenty of water.

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

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

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

**Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling

See Section 13 for disposal information.

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## 7 Handling and storage

### Handling

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

**Information about fire - and explosion protection:** The product is not flammable

**Conditions for safe storage, including any incompatibilities**

### Storage

**Requirements to be met by storerooms and receptacles:** No special requirements.

**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

**Ingredients 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 valid during the making were used as basis.

### Exposure controls

#### Personal protective equipment

#### General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

**Protection of hands:** Not required.

#### 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:

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Not determined
<b>Odour threshold:</b>	Not determined.

#### Change in condition

<b>Melting point/freezing point:</b>	undetermined
<b>Initial boiling point and boiling range:</b>	100 °C (212 °F)
<b>Flash point:</b>	Not applicable

**Flammability (solid, gaseous)** Not applicable.

**Ignition temperature:** >370 °C (>698 °F)

**Decomposition temperature:** Not determined.

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<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density:</b>	Not determined
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Fully miscible
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>dynamic:</b>	Not determined.
<b>kinematic:</b>	Not determined.
<b>Water:</b>	87.5 %
<b>Other information</b>	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 relevant for classification:** No data available  
**Primary irritant effect:**  
**Skin corrosion/irritation** No irritant effect.  
**Serious eye damage/irritation** No irritating effect.  
**Respiratory or skin sensitisation** No sensitising effects known.  
**Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

## 12 Ecological information

**Toxicity**  
**Aquatic toxicity:**  
Not available  
No further relevant information available.

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**Persistence and degradability:***Not available**No further relevant information available.***Behaviour in environmental systems:****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 packaging:****Recommendation:** *Disposal must be made according to official regulations.***Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

## 14 Transport information

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

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UN "Model Regulation":

Not applicable

## \* 15 Regulatory information

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

**GHS label elements** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I**

None of the ingredients is listed. This product is for research and development use only.

**Waterhazard 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

Safety Department

2800 Woods Hollow Road

Madison, WI 53711

U.S.A.

**Date of preparation / last revision** 11/13/2019 / -

**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: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

**\* Data compared to the previous version altered.**



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*acc. to OSHA HCS*

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Revision: 11/13/2019

**1 Identification****Product identifier****Trade name:** Lysis Buffer**Article number:** A826**Application of the substance / the preparation:** Laboratory chemicals**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Promega Corporation  
2800 Woods Hollow Road  
Madison, WI 53711  
U.S.A.  
1-608-274-4330  
1-800-356-9526

SDS author: [Regulatory.Affairs@promega.com](mailto:Regulatory.Affairs@promega.com)**Further information obtainable from:**

Promega UK  
Delta House  
Southampton Science Park  
Southampton SO16 7NS  
United Kingdom  
Tel: (44) 23 8076 0225  
Fax: (44) 23 8076 7014  
Freephone: 0800 378994  
E-mail Address: [ukcustserve@promega.com](mailto:ukcustserve@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). Within UK +(44)-870-8200418.

**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.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

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**Label elements****GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).**Hazard pictograms** GHS05, GHS07**Signal word** Danger**Hazard-determining components of labelling:**

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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position 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.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

Store locked up.

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

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

### 3 Composition/information on ingredients

**Chemical characterisation: Mixtures****Description:**

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances.

**Components:**

593-84-0	guanidinium thiocyanate	50-75%
9002-93-1	Polyethylene glycol tert-octylphenyl ether	1-5%
75621-03-3	3-[(3-Choalamidopropyl)dimethylammonio]propanesulfonic acid	1-5%

**Additional information:** For the wording of the listed hazard 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.

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**Trade name: Lysis Buffer**

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Seek medical treatment.

**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 soap, water and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:** Call a doctor immediately.

**After swallowing:**

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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:**

CO<sub>2</sub>, 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:** Mount 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.

Keep people at a distance and stay on the windward side.

Wear protective clothing.

**Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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 neutralising agent.

Dispose contaminated material as waste according to Section 13.

Ensure adequate ventilation.

Keep away from water.

**Reference to other sections**

See Section 7 for information on safe handling

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**Trade name: Lysis Buffer**

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See Section 13 for disposal information.

## 7 Handling and storage

### Handling

#### Precautions for safe handling

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

**Information about fire - and explosion protection:** The product is not flammable

#### Conditions for safe storage, including any incompatibilities

#### Storage

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Do not store together with acids.

**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

#### Ingredients 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 valid during the making 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.

Clean skin thoroughly immediately after handling the product.

#### Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Protection of hands:

Protective gloves.

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

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

The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it or AS/NZS 2161.

#### 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.

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**Eye protection:**

Tightly sealed goggles.

Use equipment for eye protection tested and approved under government standard EN 166(EU) or AS/NZS 1336, 1137 and 1138.

## 9 Physical and chemical properties

**Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Not determined
<b>Odour threshold:</b>	Not determined.

<b>pH-value at 20 °C (68 °F):</b>	6.9
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**Change in condition**

<b>Melting point/freezing point:</b>	undetermined
<b>Initial boiling point and boiling range:</b>	100 °C (212 °F)
<b>Flash point:</b>	Not applicable

<b>Flammability (solid, gaseous)</b>	Not applicable.
<b>Decomposition temperature:</b>	Not determined.

<b>Auto-ignition temperature:</b>	Product is not selfigniting.
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<b>Explosive properties:</b>	Product does not present an explosion hazard.
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**Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.

<b>Density at 20 °C (68 °F):</b>	1.12 g/cm <sup>3</sup> (9.3464 lbs/gal)
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<b>Relative density</b>	Not determined.
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<b>Vapour density</b>	Not determined.
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<b>Evaporation rate</b>	Not determined.
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**Solubility in / Miscibility with**

<b>Water:</b>	Fully miscible
<b>Partition coefficient: n-octanol/water:</b>	Not determined.

**Viscosity:**

<b>dynamic:</b>	Not determined.
<b>kinematic:</b>	Not determined.

<b>Organic solvents:</b>	1.0 %
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<b>Water:</b>	44.4 %
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<b>Solids content:</b>	53.2 %
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<b>Other information</b>	No further relevant information available.
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## 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.

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Trade name: Lysis Buffer

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**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 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:****Skin corrosion/irritation** Caustic effect on skin and mucous membranes.**Serious eye damage/irritation** Strong caustic effect.**Respiratory or skin sensitisation** Sensitization possible through inhalation.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Harmful

Corrosive

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

## 12 Ecological information

**Toxicity****Aquatic toxicity:** Harmful to aquatic life with long lasting effects**Persistence and degradability:**

Not available

No further relevant information available.

**Behaviour in environmental systems:****Bioaccumulative potential**

Not known

No further relevant information available.

**Mobility in soil** No further relevant information available.**Ecotoxicological effects:****Remark:** Harmful to fish**Additional ecological information:****General notes:**

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

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

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Trade name: *Lysis Buffer*

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**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 packaging:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.\* **14 Transport information****UN-Number****ADR, IMDG, IATA**

UN1760

**UN proper shipping name****ADR****IMDG, IATA**

1760 CORROSIVE LIQUID, N.O.S. solution

CORROSIVE LIQUID, N.O.S. solution

**Transport hazard class(es)****ADR****Class**

8 (C9) Corrosive substances.

**Label**

8

**IMDG, IATA****Class**

8 Corrosive substances.

**Label**

8

**Packing group****ADR, IMDG, IATA**

II

**Environmental hazards:**

Not applicable.

**Special precautions for user**

Warning: Corrosive substances.

**Danger code (Kemler):**

80

**EMS Number:**

F-A,S-B

**Stowage Category**

B

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Trade name: *Lysis Buffer*

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<b>Stowage Code</b>	<i>SW2 Clear of living quarters.</i>
<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	<i>Not applicable.</i>
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Limited quantities (LQ)</b>	<i>1L</i>
<b>Excepted quantities (EQ)</b>	<i>Code: E2</i>
	<i>Maximum net quantity per inner packaging: 30 ml</i>
	<i>Maximum net quantity per outer packaging: 500 ml</i>
<b>Transport category</b>	<i>2</i>
<b>Tunnel restriction code</b>	<i>E</i>
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	<i>1L</i>
<b>Excepted quantities (EQ)</b>	<i>Code: E2</i>
	<i>Maximum net quantity per inner packaging: 30 ml</i>
	<i>Maximum net quantity per outer packaging: 500 ml</i>
<b>UN "Model Regulation":</b>	<i>UN 1760 CORROSIVE LIQUID, N.O.S. SOLUTION, 8, II</i>

## 15 Regulatory information

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

**GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

**Signal word** *Danger*

**Hazard-determining components of labelling:**

*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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF INHALED: Remove victim to fresh air and keep at rest in a position 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.*

*Specific treatment (see on this label).*

*Wash contaminated clothing before reuse.*

*Store locked up.*

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

(Contd. on page 9)

US



# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

**Trade name: Lysis Buffer**

(Contd. of page 8)

**Directive 2012/18/EU****Named dangerous substances - ANNEX I**

None of the ingredients is listed. This product is for research and development use only.

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

**Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

9002-93-1	Polyethylene glycol tert-octylphenyl ether
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**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

Safety Department

2800 Woods Hollow Road

Madison, WI 53711

U.S.A.

**Date of preparation / last revision** 11/13/2019 / -**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

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

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

**\* Data compared to the previous version altered.**

**Safety Data Sheet**  
*acc. to OSHA HCS*

Printing date 11/13/2019

Revision: 11/13/2019

**1 Identification**

**Product identifier**

**Trade name:** Alcohol Wash, Blood, Custom

**Article number:** AX518A

**Application of the substance / the preparation:** Laboratory chemicals

**Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Promega Corporation  
2800 Woods Hollow Road  
Madison, WI 53711  
U.S.A.  
1-608-274-4330  
1-800-356-9526

SDS author: [Regulatory.Affairs@promega.com](mailto:Regulatory.Affairs@promega.com)

**Further information obtainable from:**

Promega UK  
Delta House  
Southampton Science Park  
Southampton SO16 7NS  
United Kingdom  
Tel: (44) 23 8076 0225  
Fax: (44) 23 8076 7014  
Freephone: 0800 378994  
E-mail Address: [ukcustserve@promega.com](mailto:ukcustserve@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). Within UK +(44)-870-8200418.

**2 Hazard(s) identification**

**Classification of the substance or mixture**

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

**Label elements**

**GHS label elements** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

**Trade name: Alcohol Wash, Blood, Custom**

(Contd. of page 1)

### 3 Composition/information on ingredients

**Chemical characterisation: Mixtures**

**Description:**

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances.

**Components:** Not applicable

**Additional information:** For the wording of the listed hazard 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:**

CO<sub>2</sub>, 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.

### 7 Handling and storage

**Handling**

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

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

**Trade name: Alcohol Wash, Blood, Custom**

(Contd. of page 2)

**Information about fire - and explosion protection:** The product is not flammable

**Conditions for safe storage, including any incompatibilities**

**Storage**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**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**

**Ingredients 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 valid during the making were used as basis.

**Exposure controls**

**Personal protective equipment**

**General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

**Protection of hands:** Not required.

**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:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Not determined
<b>Odour threshold:</b>	Not determined.

<b>pH-value at 20 °C (68 °F):</b>	7
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**Change in condition**

<b>Melting point/freezing point:</b>	0 °C (32 °F)
<b>Initial boiling point and boiling range:</b>	100 °C (212 °F)
<b>Flash point:</b>	Not applicable

<b>Flammability (solid, gaseous)</b>	Not applicable.
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<b>Decomposition temperature:</b>	Not determined.
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<b>Auto-ignition temperature:</b>	Product is not selfigniting.
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<b>Explosive properties:</b>	Product does not present an explosion hazard.
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<b>Explosion limits:</b>	
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<b>Lower:</b>	Not determined.
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<b>Upper:</b>	Not determined.
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(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

**Trade name: Alcohol Wash, Blood, Custom**

(Contd. of page 3)

<b>Vapour pressure:</b>	Not determined.
<b>Density:</b>	Not determined
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Fully miscible
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>dynamic:</b>	Not determined.
<b>kinematic:</b>	Not determined.
<b>Water:</b>	98.8 %
<b>Solids content:</b>	1.2 %
<b>Other information</b>	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 relevant for classification:** No data available

**Primary irritant effect:**

**Skin corrosion/irritation** No irritant effect.

**Serious eye damage/irritation** No irritating effect.

**Respiratory or skin sensitisation** No sensitising effects known.

**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

## 12 Ecological information

**Toxicity**

**Aquatic toxicity:**

Not available

No further relevant information available.

**Persistence and degradability:**

Not available

No further relevant information available.

(Contd. on page 5)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

**Trade name: Alcohol Wash, Blood, Custom**

(Contd. of page 4)

**Behaviour in environmental systems:****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:**

Generally not hazardous for water.

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

## 14 Transport information

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

US

(Contd. on page 6)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

**Trade name: Alcohol Wash, Blood, Custom**

(Contd. of page 5)

### 15 Regulatory information

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

**GHS label elements** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I**

None of the ingredients is listed. This product is for research and development use only.

**Waterhazard 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

Safety Department

2800 Woods Hollow Road

Madison, WI 53711

U.S.A.

**Date of preparation / last revision** 11/13/2019 / -

**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:** International Civil Aviation Organisation

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**IMDG:** International Maritime Code for Dangerous Goods

**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)

**LC50:** Lethal concentration, 50 percent

**LD50:** Lethal dose, 50 percent

**PBT:** Persistent, Bioaccumulative and Toxic

**vPvB:** very Persistent and very Bioaccumulative

**TLV:** Threshold Limit Value

**PEL:** Permissible Exposure Limit

**REL:** Recommended Exposure Limit

**\* Data compared to the previous version altered.**

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

**1 Identification**

**Product identifier**

**Trade name:** Elution Buffer

**Article number:** A828

**Application of the substance / the preparation:** Laboratory chemicals

**Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Promega Corporation  
2800 Woods Hollow Road  
Madison, WI 53711  
U.S.A.  
1-608-274-4330  
1-800-356-9526

SDS author: [Regulatory.Affairs@promega.com](mailto:Regulatory.Affairs@promega.com)

**Further information obtainable from:**

Promega UK  
Delta House  
Southampton Science Park  
Southampton SO16 7NS  
United Kingdom  
Tel: (44) 23 8076 0225  
Fax: (44) 23 8076 7014  
Freephone: 0800 378994  
E-mail Address: [ukcustserve@promega.com](mailto:ukcustserve@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). Within UK +(44)-870-8200418.

**2 Hazard(s) identification**

**Classification of the substance or mixture**

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

**Label elements**

**GHS label elements** Not applicable

**Hazard pictograms** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.



# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

Trade name: *Elution Buffer*

(Contd. of page 1)

### 3 Composition/information on ingredients

**Chemical characterisation:** *Mixtures*

**Description:**

*The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances.*

**Components:** *Not applicable*

**Additional information:** *For the wording of the listed hazard 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:**

*CO<sub>2</sub>, 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.*

### 7 Handling and storage

**Handling**

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

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

Trade name: *Elution Buffer*

(Contd. of page 2)

**Information about fire - and explosion protection:** *The product is not flammable*

**Conditions for safe storage, including any incompatibilities**

**Storage**

**Requirements to be met by storerooms and receptacles:** *No special requirements.*

**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**

**Ingredients 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 valid during the making were used as basis.*

**Exposure controls**

**Personal protective equipment**

**General protective and hygienic measures**

*The usual precautionary measures are to be adhered to when handling chemicals.*

**Respiratory protection:** *Not required.*

**Protection of hands:** *Not required.*

**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:**

<b>Form:</b>	<i>Fluid</i>
<b>Colour:</b>	<i>Colourless</i>
<b>Odour:</b>	<i>Not determined</i>
<b>Odour threshold:</b>	<i>Not determined.</i>

<b>pH-value at 20 °C (68 °F):</b>	<i>8</i>
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**Change in condition**

<b>Melting point/freezing point:</b>	<i>0 °C (32 °F)</i>
<b>Initial boiling point and boiling range:</b>	<i>100 °C (212 °F)</i>
<b>Flash point:</b>	<i>Not applicable</i>

<b>Flammability (solid, gaseous)</b>	<i>Not applicable.</i>
<b>Decomposition temperature:</b>	<i>Not determined.</i>

<b>Auto-ignition temperature:</b>	<i>Product is not selfigniting.</i>
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<b>Explosive properties:</b>	<i>Product does not present an explosion hazard.</i>
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<b>Explosion limits:</b>	
<b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

Trade name: *Elution Buffer*

(Contd. of page 3)

<b>Vapour pressure:</b>	<i>Not determined.</i>
<b>Density at 20 °C (68 °F):</b>	<i>0.99929 g/cm<sup>3</sup> (8.33908 lbs/gal)</i>
<b>Relative density</b>	<i>Not determined.</i>
<b>Vapour density</b>	<i>Not determined.</i>
<b>Evaporation rate</b>	<i>Not determined.</i>
<b>Solubility in / Miscibility with</b>	
<b>Water:</b>	<i>Fully miscible</i>
<b>Partition coefficient: n-octanol/water:</b>	<i>Not determined.</i>
<b>Viscosity:</b>	
<b>dynamic at 20 °C (68 °F):</b>	<i>0.0952 mPas</i>
<b>kinematic:</b>	<i>Not determined.</i>
<b>Water:</b>	<i>99.8 %</i>
<b>Solids content:</b>	<i>0.2 %</i>
<b>Other information</b>	<i>No further relevant information available.</i>

## 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 relevant for classification:** *No data available*

**Primary irritant effect:**

**Skin corrosion/irritation** *No irritant effect.*

**Serious eye damage/irritation** *No irritating effect.*

**Respiratory or skin sensitisation** *No sensitising effects known.*

**Additional toxicological information:**

*The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.*

## 12 Ecological information

**Toxicity**

**Aquatic toxicity:**

*Not available*

*No further relevant information available.*

**Persistence and degradability:**

*Not available*

*No further relevant information available.*

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

Trade name: *Elution Buffer*

(Contd. of page 4)

**Behaviour in environmental systems:****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:***Generally not hazardous for water.**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 packaging:****Recommendation:** *Disposal must be made according to official regulations.***Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

## 14 Transport information

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

US

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/13/2019

Revision: 11/13/2019

Trade name: *Elution Buffer*

(Contd. of page 5)

## 15 Regulatory information

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

**GHS label elements** Not applicable

**Signal word** Not applicable

**Hazard statements** Not applicable

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I**

None of the ingredients is listed. This product is for research and development use only.

**Waterhazard 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

Safety Department

2800 Woods Hollow Road

Madison, WI 53711

U.S.A.

**Date of preparation / last revision** 11/13/2019 / -

**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:** International Civil Aviation Organisation

**ADR:** Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

**IMDG:** International Maritime Code for Dangerous Goods

**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)

**LC50:** Lethal concentration, 50 percent

**LD50:** Lethal dose, 50 percent

**PBT:** Persistent, Bioaccumulative and Toxic

**vPvB:** very Persistent and very Bioaccumulative

**TLV:** Threshold Limit Value

**PEL:** Permissible Exposure Limit

**REL:** Recommended Exposure Limit

**\* Data compared to the previous version altered.**