09/06/2020	Kit Components	
Product code	Description	
AS1370	Maxwell® RSC Cell DNA	
Components:		
A826	Lysis Buffer	
K104	Maxwell® LEV DNA IQ Resin	
A937	Alcohol Wash	
A828	Elution Buffer	



## Printing date 09/06/2020

Reviewed on 09/03/2020

Trade name: Lysis	Buffer
Article number: A8. Application of the s	26 <b>ubstance / the mixture</b> For Laboratory Use
Details of the suppl Manufacturer/Supp	ier of the safety data sheet lier:
Promega Corporation 2800 Woods Hollow Madison, WI 53711 U.S.A. 1-800-356-9526 or 6	Road
Promega Corporation 2800 Woods Hollow Madison, WI 53711 U.S.A. 1-800-356-9526 or f Emergency telephon For Chemical Emer and Canada: 1-800-	calRegulatory@promega.com on • Road (608)-274-4330 <b>ne number:</b> •gency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within U.

GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Acute Tox. 4H302 Harmful if swallowed.Acute Tox. 4H332 Harmful if inhaled.

## Label elements

*GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

- ÚS -

Printing date 09/06/2020

Reviewed on 09/03/2020

Trade name: Lysis Buffer

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Printing date 09/06/2020

Reviewed on 09/03/2020

Trade name: Lysis Buffer

(Contd. of page 2)

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 non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

Dangerous	components:	
593-84-0	guanidinium thiocyanate	50-75%
9002-93-1	Polyethylene glycol tert-octylphenyl ether	1-5%
75621-03-3	3-[(3-Choalamidopropryl)dimethylammonio]propanesulfonic acid	1-5%
Additional i	<i>nformation:</i> 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.

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 water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Call a doctor immediately.

# After swallowing:

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

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.

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## Trade name: Lysis Buffer

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. *Keep people at a distance and stay upwind.* 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 neutralizing 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. 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 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: 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** 

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.

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(Contd. of page 3)

US

US

# Safety Data Sheet acc. to OSHA HCS

Printing date 09/06/2020

Reviewed on 09/03/2020

# Trade name: Lysis Buffer

(Contd. of page 4) <i>Additional information:</i> The lists that were valid during the creation were used as basis.					
Exposure controls					
Personal protective equipment:					
General protective and hygienic measures:					
Keep away from foodstuffs, beverages and feed.					
Immediately remove all soiled and contaminated clothing.					
Wash hands before breaks and at the end of work.					
Avoid contact with the eyes.					
Avoid contact with the eyes and skin.					
Do not eat or drink while working.					
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:					
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.					
It is recommended that the selected protective gloves be tested and approved under NIOSH or EU Directive					
89/686/EEC and the standard EN 374 derived from it.					
Material of gloves					
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and					
varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance					
of the glove material can not be calculated in advance and has therefore to be checked prior to the application.					
Eye protection:					
Tightly sealed goggles					
Use equipment for eye protection tested and approved under government NIOSH standards.					
9 Physical and chemical properties					
Information on basic physical and chemical properties					

Information on basic physical and c	hemical properties	
General Information Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	6.9	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	Undetermined. 100 °C (212 °F) Not applicable.	
Flammability (solid, gaseous): Decomposition temperature:	Not applicable. Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower:	Not determined.	
Upper:	Not determined.	
		(Contd. on page 6)

*Printing date 09/06/2020* 

Reviewed on 09/03/2020

## Trade name: Lysis Buffer

		(Contd. of page 5
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.12 g/cm <sup>3</sup> (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/		
Viscosity:	,	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Organic solvents:	1.0 %	
Water:	44.4 %	
VOC content:	0.00 %	
Solids content:	53.2 %	
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: 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 va	lues that	are relev	ant for classification	on:

**593-84-0 guanidinium thiocyanate** Oral LD50 475 mg/kg (Rat)

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: Caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Sensitization: Sensitization possible through inhalation.

# Additional toxicological information:

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

Corrosive

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## Trade name: Lysis Buffer

(Contd. of page 6) Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## Carcinogenic categories

IARC (International Agency for Research on Cancer)

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 1

Aquatic toxicity: Harmful to aquatic life with long lasting effects. 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:** Harmful to fish 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. Harmful to aquatic organisms 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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Trade name: Lysis Buffer

\*

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UN-Number	
DOT, ADR, IMDG, IATA	UN1760
UN proper shipping name DOT ADR IMDG, IATA	Corrosive liquid, n.o.s. solution 1760 CORROSIVE LIQUID, N.O.S. solution CORROSIVE LIQUID, N.O.S. solution
Transport hazard class(es)	
DOT	
<i>D</i> 01	
SORROSIVE	
Class	8 Corrosive substances
Label	8
ADR	
A CONTRACTOR OF	
Class	8 (C9) Corrosive substances
Label	8
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ADR, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code): EMS Number:	80 F-A,S-B
Emis number: Stowage Category	<i>F</i> - <i>A</i> , <i>S</i> - <i>D</i> <i>B</i>
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml

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Reviewed on 09/03/2020

Trade name: Lysis Buffer

(Contd. of page 8)

IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L 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

# **15 Regulatory information**

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

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

593-84-0 guanidinium thiocyanate

9002-93-1 Polyethylene glycol tert-octylphenyl ether

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.

## Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

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.

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*Printing date 09/06/2020* 

Reviewed on 09/03/2020

## Trade name: Lysis Buffer

(Contd. of page 9)

**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.

*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 Date of preparation / last revision 09/06/2020 / 1.0 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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 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.



## Printing date 09/06/2020

Reviewed on 09/03/2020

# 1 Identification

Product identifier Trade name: <u>Maxwell® LEV DNA IQ Resin</u>

Article number: K104 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 Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **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 = 1Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 1Fire = 0*Reactivity* = 0**OSHA Hazard Overview (Criteria according to 29CFR1910.1200):** Irritant Sensitizer

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Printing date 09/06/2020

Reviewed on 09/03/2020

Trade name: Maxwell® LEV DNA IQ Resin

(Contd. of page 1)

Primary route(s) of entry: Dermal Target Organ(s): Not applicable or unknown Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# **3** Composition/information on ingredients

Chemical characterization: Mixtures

**Description:** 

The product is made up of a mixture of 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: Immediately wash with water and soap and rinse thoroughly. After eye contact: Rinse opened eye for several minutes under running water. After swallowing: If the patient feels unwell or is concerned, obtain medical advice. Information for doctor: Most important symptoms and effects, both acute and delayed Allergic reactions 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).Ensure adequate ventilation.

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Printing date 09/06/2020

Reviewed on 09/03/2020

## Trade name: Maxwell® LEV DNA IQ Resin

Reference to other sections

See Section 7 for information on safe handling. See Section 13 for disposal information.

# 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. **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: 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**

**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: Ensure that washing facilities are available at the work place. Immediately remove all soiled and contaminated clothing. 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

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

# 9 Physical and chemical properties

Information on basic physical and chemical properties General Information Appearance: Form: Fluid

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US

(Contd. of page 2)

Printing date 09/06/2020

Reviewed on 09/03/2020

## Trade name: Maxwell® LEV DNA IQ Resin

	(Contd. of p	age
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	5	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1 g/cm <sup>3</sup> (8.345 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):		
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Organic solvents:	0.1%	
Water:	98.7 %	
VOC content:	0.13 %	
Solids content:	1.1%	
Other information	No further relevant information available.	

# 10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

*Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications. *Possibility of hazardous reactions* No dangerous reactions known.

*Conditions to avoid No further relevant information available.* 

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: No data available

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<sup>-</sup> US

Printing date 09/06/2020

Reviewed on 09/03/2020

## Trade name: Maxwell® LEV DNA IQ Resin

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3

3

Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: The product is not subject to classification according to internally approved calculation methods for preparations:

Irritant

Carcinogenic categories

IARC (International Agency for Research on Cancer)

7631-86-9 silicon dioxide

1309-37-1 iron trioxide

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 available No further relevant information available. 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.

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Reviewed on 09/03/2020

Trade name: Maxwell® LEV DNA IQ Resin

(Contd. of page 5)

## Uncleaned packagings:

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

# **14 Transport information**

Not hazardous for transportation Not applicable
None Not applicable
None
Not applicable
None Not applicable
No
Not applicable.
<b>f</b> Not applicable.
Not applicable

# **15 Regulatory information**

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

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

(Contd. on page 7)

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Printing date 09/06/2020

Reviewed on 09/03/2020

Trade name: Maxwell® LEV DNA IQ Resin

(Contd. of page 6)

A4

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH)

1309-37-1 iron trioxide

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

*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 Date of preparation / last revision 09/06/2020 / 1.0 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: Internation Civil Aviation Organization ADR: Accord 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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 \* Data compared to the previous version altered.

US



## Printing date 09/06/2020

Reviewed on 09/03/2020

Trade name: <u>Alcohol Wash</u>	
<i>Article number: A937</i> <i>Application of the substance / th</i>	e mixture For Laboratory Use
Details of the supplier of the safe Manufacturer/Supplier:	ety data sheet
Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-43	30
and Canada: 1-800-424-9300	

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

GHS07

*Eye Irrit. 2A H319 Causes serious eye irritation.* 

STOT SE 3 H336 May cause drowsiness or dizziness.

# Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

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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 non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

Dangerous components:

64-17-5 ethanol	20-25%
67-63-0 2-Propanol	20-25%

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.

Take affected persons out into the fresh air.

Take affected persons out of danger area and lay down.

## 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.

Take affected persons into fresh air and keep quiet.

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

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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

Information for doctor:

Most important symptoms and effects, both acute and delayed Headache

Dizziness

Nausea

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

# 5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents: Use fire fighting measures that suit the environment. Special hazards arising from the substance or mixture None known No further relevant information available. Advice for firefighters In the case of fire, wear respiratory protective equipment and chemical protective suit.

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(Contd. of page 3)

# Safety Data Sheet acc. to OSHA HCS

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#### Trade name: Alcohol Wash

6 Accidental release measures

Personal precautions, protective equipment and emergency proceduresRemove persons from danger area.Wear protective equipment. Keep unprotected persons away.Keep away from ignition sourcesWear protective clothing.Environmental precautions:Prevent seepage into sewage system, workpits and cellars.Dilute with plenty of water.Do not allow to enter sewers/ surface or ground water.Methods and material for containment and cleaning up:Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).Ensure adequate ventilation.Reference to other sectionsSee 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. Use only in well ventilated areas. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. 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:

## 64-17-5 ethanol

PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

*TLV* Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm

## 67-63-0 2-Propanol

PEL Long-term value: 980 mg/m<sup>3</sup>, 400 ppm

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# Trade name: Alcohol Wash

	(Contd. of page 4		
REL Short-term value: 1225 mg/r			
Long-term value: 980 mg/m <sup>4</sup>	* *		
TLV Short-term value: 984 mg/m			
Long-term value: 492 mg/m <sup>2</sup> BEI	<i>200 ppm</i>		
	-		
Ingredients with biological limit values: 67-63-0 2-Propanol			
Medium: urine			
Time: end of shift at end of w			
Parameter: Acetone (backgro			
Additional information: The lists	that were valid during the creation were used as basis.		
Exposure controls			
Personal protective equipment:			
General protective and hygienic n			
Keep away from foodstuffs, bever			
Immediately remove all soiled and			
Wash hands before breaks and at	the end of work.		
Avoid contact with the eyes.			
Avoid contact with the eyes and sk			
Do not eat or drink while working			
Breathing equipment:			
	ollution use respiratory filter device. In case of intensive or longer exposure us		
respiratory protective device that	is independent of circulating dir.		
<b>Protection of hands:</b> Protective gloves Select the glove material considering penetration time, rate of diffusion and degradation time.			
89/686/EEC and the standard EN			
Material of gloves	574 derived from it.		
	s does not only depend on the material, but also on further marks of quality ar		
	ufacturer. As the product is a preparation of several substances, the resistance		
	alculated in advance and has therefore to be checked prior to the application.		
<i>Eye protection:</i>			
Safety glasses			
	tested and approved under government NIOSH standards.		
Physical and chemical prop	erties		
Information on basic physical an General Information	d chemical properties		
Appearance:			
<i>Appearance:</i> <i>Form:</i>	Fluid		
Form: Color:	riuia Colorless		
Odor:	Alcohol-like		
Odor threshold:	Not determined.		
	7		
pH-value at 20 °C (68 °F):	, ,		
Change in condition Melting point/Melting range:	, Undetermined.		

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Trade name: Alcohol Wash

	(Contd. of page :
Boiling point/Boiling range:	78 °C (172.4 °F)
Flash point:	< 23 °C (< 73.4 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	425 °C (797 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard. Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	1
Lower:	2 Vol %
Upper:	15 Vol %
Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
Density at 20 °C (68 °F):	0.90053 g/cm <sup>3</sup> (7.51492 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.
Organic solvents:	50.0 %
Water:	49.4 %
VOC content:	50.00 %
Solids content:	0.6%
Other information	No further relevant information available.

# **10 Stability and reactivity**

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

# 11 Toxicological information

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

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## Trade name: Alcohol Wash

## Additional toxicological information:

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

## Carcinogenic categories

IARC (International Agency for Research on Cancer)

64-17-5 ethanol

67-63-0 2-Propanol

## 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 available* No further relevant information available. Persistence and degradability *Not available* No further relevant information available. **Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: No data available. Results of PBT and vPvB assessment **PBT:** Not applicable. **vPvB:** Not applicable. Other adverse effects No further relevant information available.

## **13 Disposal considerations**

## Waste treatment methods

**Recommendation:** 

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

## Uncleaned packagings:

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

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Trade name: Alcohol Wash

(Contd. of page 7)

UN-Number	
DOT, ADR, IMDG, IATA	UN1987
UN proper shipping name	
DOT	Alcohols, n.o.s. (Isopropanol, Ethanol)
ADR	1987 ALCOHOLS, N.O.S. (vapour pressure at 50°C not me
	than 110 kPa) (ISOPROPANOL (ISOPROPYL ALCOHO) ETHANOL (ETHYL ALCOHOL))
IMDG	ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHO
IMDO	ETHANOL (ETHYL ALCOHOL))
IATA	ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHO
	ETHANOL)
Transport hazard class(es)	
DOT	
3	
Class Label	3 Flammable liquids 3
	· · · · · · · · · · · · · · · · · · ·
ADR	
3	
Class	3 (F1) Flammable liquids
Label	3
IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, ADR, IMDG, IATA	II
Environmental hazards:	N
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code). EMS Number:	: 33 F-E,S-D
Stowage Category	<i>г-с</i> , <i>з-D</i> В
	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

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Trade name: Alcohol Wash

	(Contd. of page
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1987 ALCOHOLS, N.O.S. (VAPOUR PRESSURE AT 50°
	NOT MORE THAN 110 KPA) (ISOPROPANOL (ISOPROPY
	ALCOHOL), ETHANOL (ETHYL ALCOHOL)), 3, II

# **15 Regulatory information**

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

Section 355 (extremely hazardous substances):	
None of the ingredients are listed.	
Section 313 (Specific toxic chemical listings):	
67-63-0 2-Propanol	
TSCA (Toxic Substances Control Act) Inventory:	
All ingredients are listed.	
Hazardous Air Pollutants	
None of the ingredients are listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
64-17-5 ethanol	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
TLV (Threshold Limit Value established by ACGIH)	
64-17-5 ethanol	A3
67-63-0 2-Propanol	A4
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients are listed.	

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Trade name: Alcohol Wash

(Con GHS label elements The product is classified and labeled according to the Globally Harmonized System Signal word Danger	ntd. of page 9) <i>m (GHS)</i> .
Hazard-determining components of labeling:	
2-Propanol	
Hazard statements	
Highly flammable liquid and vapor.	
Causes serious eye irritation.	
May cause drowsiness or dizziness.	
Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
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 Continue rinsing.	easy to do.
Continue rinsing. Call a poison center/doctor if you feel unwell.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store in a weil-ventitatea place. Keep cool. Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
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 Date of preparation / last revision 09/06/2020 / 3.0 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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)

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# Trade name: Alcohol Wash

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 BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 **\* Data compared to the previous version altered.**  (Contd. of page 10)



## Printing date 09/06/2020

Reviewed on 09/03/2020

1 Identification
 Product identifier Trade name: <u>Elution Buffer</u>
<i>Article number:</i> A828 <i>Application of the substance / the mixture</i> 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 Promega Corporation 2800 Woods Hollow Road

2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330 **Emergency telephone number:** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS). Label elements **GHS label elements** Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = 0Fire = 0*Reactivity* = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Not applicable Target Organ(s): Not applicable or unknown (Contd. on page 2)

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Trade name: Elution Buffer

(Contd. of page 1)

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 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 sectionsNo dangerous substances are released.See Section 7 for information on safe handling.

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Trade name: Elution Buffer

See Section 13 for disposal information.

## 7 Handling and storage

## Handling:

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

Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: 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**

## 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 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.

Information on basic physical and chemical properties General Information		
Appearance:		
Form: Color:	Fluid	
Color: Odor:	Colorless Not determined	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	8	
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.	

Printing date 09/06/2020

Reviewed on 09/03/2020

Trade name: Elution Buffer

	(Co	ntd. of page
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:	I I	
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	0.99915 g/cm <sup>3</sup> (8.33791 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/we	ater): Not determined.	
Viscosity:	,	
Dynamic at 20 °C (68 °F):	0.0952 mPas	
Kinematic:	Not determined.	
Water:	99.7 %	
VOC content:	0.00 %	
Solids content:	0.3 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions 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: No sensitizing effects known.

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.

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

# **13 Disposal considerations**

## Waste treatment methods

**Recommendation:** 

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

## Uncleaned packagings:

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

# 14 Transport information UN-Number Not hazardous for transportation DOT, ADR, ADN, IMDG, IATA Not applicable UN proper shipping name None DOT, ADR, ADN, IMDG, IATA Not applicable Transport hazard class(es) None (Contd. on page 6)

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Reviewed on 09/03/2020

Trade name: Elution Buffer

		(Contd. of page
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 Anne MARPOL73/78 and the IBC Code	<b>x II of</b> Not applicable.	
UN "Model Regulation":	Not applicable	

# **15 Regulatory information**

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

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

## Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

## TLV (Threshold Limit Value established by ACGIH)

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

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Trade name: Elution Buffer

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*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 **Date of preparation / last revision** 09/06/2020 / 1.0 Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: Internation Civil Aviation Organization ADR: Accord 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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 \* Data compared to the previous version altered.