07/04/2016	Kit Components	
Product code	Description	
W1001	ECL Western Blotting Substrate	
Components:		
W100A	Peroxide Solution	
W101A	Luminol Enhancer Solution	



Printing date 07/04/2016

Reviewed on 07/04/2016

Page 1/8

1 Identification

Product identifier Trade name: <u>Peroxide Solution</u>

Article number: W100A Application of the substance / the mixture 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. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: Regulatory.Affairs@promega.com

Emergency telephone number: For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

Classification of the substance or mixture

GHS08 Health hazard

Repr. 1 H360 May damage fertility or the unborn child.

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms* GHS08 *Signal word* Danger

Hazard-determining components of labeling: Boric acid perboric acid, sodium salt Hazard statements May damage fertility or the unborn child. Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Peroxide Solution

(Contd. of page 1)

Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = *0= 0 Fire Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Irritant Sensitizer *Primary route(s) of entry:* Dermal Oral Target Organ(s): Not applicable or unknown Other hazards This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200, the data reported above pertains to the hazardous ingredients of this mixture. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances. The exact concentration percentages of the hazardous substances may be withheld as a Promega Corp. trade secret.

0	components:	
10043-35-3	Boric acid	<2.00%
25322-68-3	Polyethlyene Glycol	<2.00%
11138-47-9	perboric acid, sodium salt	<1.00%
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	<0.1%
Additional	information: For the wording of the listed risk phrases refer to section 15.	

4 First-aid measures

Description of first aid measures

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

(Contd. on page 3)

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Peroxide Solution

(Contd. of page 2)

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 Advice for firefighters No special advice

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Remove persons from danger area.
Wear protective clothing.
Environmental precautions: Dilute with plenty of water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. 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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

10043-35-3 Boric acid

TLV Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ *as inhalable fraction

(Contd. on page 4)

US

Printing date 07/04/2016

Reviewed on 07/04/2016

(Contd. of page 3)

Trade name: Peroxide Solution

25322-68-3	Polyethlyene	Glycol
------------	--------------	--------

WEEL Long-term value: 10 mg/m³

(H); MW>200

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

Exposure controls

Personal protective equipment: General protective and hygienic measures: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. 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

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. **Eve protection:**

Safety glasses

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

9 Physical and chemical properties

Information on basis should all and	-hi1	
Information on basic physical and of Comparison of Compari	cnemical properties	
General Information		
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
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.	
		(Contd. on page 5)

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Peroxide Solution

		(Contd. of page
Vapor pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octan	•	
Viscosity:	,	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Organic solvents:	0.0 %	
Water:	96.8 %	
Solids content:	0.5 %	
Other information	No further relevant information available.	

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

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

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

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

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

(Contd. on page 6)

US

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Peroxide Solution

(Contd. of page 5)

12 Ecological information

Toxicity

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available Behavior in environmental systems: Bioaccumulative potential Not known Mobility in soil No further relevant information available. Ecotoxical effects: Remark: Not available Additional ecological information: General notes: Generally not hazardous for 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 DOT, ADR, ADN, IMDG, IATA	Not hazardous for transportation Void	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None Void	
Transport hazard class(es)	None	
DOT, ADR, ADN, IMDG, IATA Class	Void	
Packing group DOT, ADR, IMDG, IATA	None Void	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.	
		(Contd. on page 7)

US

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS

Reviewed on 07/04/2016

Trade name: Peroxide Solution

Printing date 07/04/2016

UN ''Model Regulation'':

Void

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):

3251-23-8 Nitric acid, copper(2+) *salt* (2:1)

TSCA (Toxic Substances Control Act):

All 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 (Envir	onmental Protection Agency)	
10043-35-3	Boric acid	I (oral)
11138-47-9	perboric acid, sodium salt	I (oral)

TLV (Threshold Limit Value established by ACGIH)

10043-35-3 Boric acid

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:

 Boric acid

 perboric acid, sodium salt

 Hazard statements

 May damage fertility or the unborn child.

 Precautionary statements

 Obtain special instructions before use.

 Do not handle until all safety precautions have been read and understood.

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

 IF exposed or concerned: Get medical advice/attention.

 Store locked up.

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

(Contd. on page 8)

A4

US –

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Peroxide Solution

(Contd. of page 7)

National regulations:

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 Environmental Health and Safety Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330 Date of preparation / last revision 07/04/2016 / -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) 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 Repr. 1: Reproductive toxicity - Category 1 * Data compared to the previous version altered.



Printing date 07/04/2016

Reviewed on 07/04/2016

Page 1/8

1 Identification

Product identifier Trade name: Luminol Enhancer Solution

Article number: W101A Application of the substance / the mixture 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.1-800-356-9526 or (608)-274-4330

Information department: SDS author: Regulatory.Affairs@promega.com

Emergency telephone number: For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 *Outside USA and Canada: +1 703-527-3887 (collect calls accepted)*

2 Hazard(s) identification

Classification of the substance or mixture

GHS08 Health hazard

Repr. 1 H360 May damage fertility or the unborn child.

Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS08 Signal word Danger Hazard-determining components of labeling: Boric acid Hazard statements May damage fertility or the unborn child. **Precautionary statements** Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

IF exposed or concerned: Get medical advice/attention.

Store locked up.

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

(Contd. on page 2)

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Luminol Enhancer Solution

(Contd. of page 1)

Classification system: NFPA ratings (scale 0 - 4) Health = 0Fire = 0*Reactivity* = 0HMIS-ratings (scale 0 - 4) *Health* = *0= 0 Fire Reactivity = 0OSHA Hazard Overview (Criteria according to 29CFR1910.1200): Irritant Sensitizer *Primary route(s) of entry:* Dermal Oral Target Organ(s): Not applicable or unknown Other hazards This mixture has not been tested to determine the overall health hazard; therefore in accordance with 29CFR1910.1200, the data reported above pertains to the hazardous ingredients of this mixture. Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description:

The product is a mixture of the hazardous substances listed below along with unlisted nonhazardous substances. The exact concentration percentages of the hazardous substances may be withheld as a Promega Corp. trade secret.

Dangerous	components:	
10043-35-3	Boric acid	<2.00%
10377-60-3	MAGNESIUM (II) NITRATE	<2.00%
26172-55-4	5-chloro-2-methyl-2H-isothiazol-3-one	<0.1%
Additional	reformation . Ear the wording of the listed risk physics refer to section 15	

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

4 First-aid measures

Description of first aid measures

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

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.

(Contd. on page 3)

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Luminol Enhancer Solution

(Contd. of page 2)

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 Advice for firefighters No special advice

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Remove persons from danger area.
Wear protective clothing.
Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. 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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

10043-35-3 Boric acid

- TLV Short-term value: 6* mg/m³
 - Long-term value: 2* mg/m³ *as inhalable fraction

(Contd. on page 4)

US

Printing date 07/04/2016

*

Reviewed on 07/04/2016

Trade name: Luminol Enhancer Solution

(Contd. of page 3)
Additional information: The lists that were valid during the creation were used as basis.
Exposure controls
Personal protective equipment:
General protective and hygienic measures:
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
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
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:
Safety glasses
Use againment for even protection tested and approved under government NIOSH standards

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

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
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:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Luminol Enhancer Solution

		(Contd. of page 4
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Organic solvents:	0.0 %	
Water:	96.8 %	
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: Irritating effect.

Sensitization: Sensitization possible through skin contact.

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)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

Toxicity

Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability Not available Behavior in environmental systems: Bioaccumulative potential Not known

(Contd. on page 6)

US

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Luminol Enhancer Solution

(Contd. of page 5)

Mobility in soil No further relevant information available. Ecotoxical effects: Remark: Not available Additional ecological information: General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

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

Uncleaned packagings:

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

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

(Contd. on page 7)

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Luminol Enhancer Solution

(Contd. of page 6)

15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

3251-23-8 Nitric acid, copper(2+) salt (2:1)

TSCA (Toxic Substances Control Act):

All 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)

10043-35-3 Boric acid

TLV (Threshold Limit Value established by ACGIH)

10043-35-3 Boric acid

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:Boric acidHazard statementsMay damage fertility or the unborn child.Precautionary statementsObtain special instructions before use.Do not handle until all safety precautions have been read and understood.Wear protective gloves/protective clothing/eye protection/face protection.IF exposed or concerned: Get medical advice/attention.Store locked up.Dispose of contents/container in accordance with local/regional/national/international regulations.

National 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.

(Contd. on page 8)

I (oral)

A4

Printing date 07/04/2016

Reviewed on 07/04/2016

Trade name: Luminol Enhancer Solution

(Contd. of page 7)

	his information is based on our present knowledge. However, this shall not constitute a guarantee for a pecific product features and shall not establish a legally valid contractual relationship.
D	epartment issuing SDS:
Pı	romega Corporation
Εı	nvironmental Health and Safety Department
	300 Woods Hollow Road
	ladison. WI
	h:(608)274-4330
	ate of preparation / last revision 07/04/2016 / -
	bbreviations and acronyms:
	D: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning
	ternational Transport of Dangerous Goods by Rail)
	DR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internatio
	urriage of Dangerous Goods by Road)
	IDG: International Maritime Code for Dangerous Goods
	OT: US Department of Transportation
	TA: International Air Transport Association CGIH: American Conference of Governmental Industrial Hygienists
	NECS: European Inventory of Existing Commercial Chemical Substances
	INCS: European List of Notified Chemical Substances
	S: Chemical Abstracts Service (division of the American Chemical Society)
	PA: National Fire Protection Association (USA)
	MIS: Hazardous Materials Identification System (USA)
LC	C50: Lethal concentration, 50 percent
	D50: Lethal dose, 50 percent
	3T: Persistent, Bioaccumulative and Toxic
	vB: very Persistent and very Bioaccumulative
	OSH: National Institute for Occupational Safety
	SHA: Occupational Safety & Health
	V: Threshold Limit Value
	EL: Permissible Exposure Limit
	EL: Recommended Exposure Limit
	pr. 1: Reproductive toxicity – Category 1 Data compared to the previous version altered.