# SAFETY DATA SHEET



3-20-2017

Clear Image

### **Section 1. Identification**

GHS product identifier

Clear Image

CLEAR Image Concentrate

Other means of identification

Not available.

NON-Ammoniated Glass and Surface

Product type

: Liquid.

CL eaner

#### Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Supplier's details

**Betco Corporation** 1001 Brown Avenue Toledo, OH 43607 www.betco.com 888-462-3826

**Emergency telephone** number (with hours of operation)

: Chemtrec 800-424-9300 (24 Hour)

### Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

**GHS** label elements

Hazard pictograms



Signal word

Warning

Hazard statements

Causes serious eye irritation. Causes skin irritation.

Precautionary statements

Prevention

: Wear protective gloves: 1 - 4 hours (breakthrough time): butyl rubber. Wear eye or face protection: Recommended: safety glasses with side-shields. Wash hands thoroughly after handling.

Response

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage

Not applicable.

Disposal

: Not applicable.

Hazards not otherwise

classified

None known.

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

#### CAS number/other identifiers

CAS number

Not applicable.

Product code

: 199

Ingredient name	%	CAS number
2-Butoxyethanol; Ethylene glycol monobutyl ether	≥8 - <10	111-76-2
tetrasodium ethylene diamine tetraacetate	≥1.2 - <3	64-02-8
sodium xylenesulphonate	≥1 - <3	1300-72-7
sodium dodecyl sulphate	≥1 - <2	151-21-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

: No known significant effects or critical hazards.

Skin contact

: Causes skin irritation.

Ingestion

: No known significant effects or critical hazards.

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: 4/30/2015.

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Version

2/13

### Section 4. First aid measures

#### Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:

pain or irritation watering

Inhalation

: No specific data.

Skin contact

: Adverse symptoms may include the following:

irritation redness

redness

Ingestion

: No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing

ing

: Use an extinguishing agent suitable for the surrounding fire.

Decomposition products may include the following materials:

Unsuitable extinguishing

media

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### Section 6. Accidental release measures

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

## Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
2-Butoxyethanol, Ethylene glycol monobutyl ether	OSHA PEL 1989 (United States, 3/1989).
	Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 120 mg/m³ 8 hours.
	NIOSH REL (United States, 10/2013).
	Absorbed through skin.
	TWA: 5 ppm 10 hours.
	TWA: 24 mg/m³ 10 hours.
	ACGIH TLV (United States, 4/2014).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	Absorbed through skin.
	TWA: 50 ppm 8 hours.
	TWA: 240 mg/m³ 8 hours.

# Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

# Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses with side-shields

### Skin protection

### Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 1 - 4 hours (breakthrough time): butyl rubber

#### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state

: Liquid.

Color

Clear, Blue,

Odor

Pleasant.

Odor threshold

Not available.

pH.

7 to 10.5

Melting point

Not available.

**Boiling point** 

Not available.

Flash point

Closed cup: >100°C (>212°F)

**Evaporation rate** 

Not available.

Flammability (solid, gas)

Not available.

Lower and upper explosive

: Not available.

(flammable) limits

Vapor pressure Vapor density

Not available. Not available.

Relative density

: 0.98

Solubility.

Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature

: Not available.

**Decomposition temperature** 

Not available.

Viscosity

: Not available.

## Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

No specific data.

Incompatible materials

: No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

**Acute toxicity** 

# Section 11. Toxicological information

Product/ingredient name	Result		Species	Dose	Exposure
2-Butoxyethanol; Ethylene glycol monobutyl ether	LC50 Inhalation Gas.		Rat	450 ppm	4 hours
	LD50 Dermal LD50 Oral		Rabbit Rat	220 mg/kg 250 mg/kg	-
tetrasodium ethylene diamine tetraacetate	LD50 Oral		Rat	10 g/kg	<u>-</u>
sodium dodecyl sulphate	LD50 Oral	** .	Rat	1288 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Butoxyethanol; Ethylene	Eyes - Moderate irritant	Rabbit	- ,	24 hours 100	-
glycol monobutyl ether				milligrams	
	Eyes - Severe irritant	Rabbit	-	100	-
				milligrams	
	Skin - Mild irritant	Rabbit	_	500	-
				milligrams	
tetrasodium ethylene diamine	Eyes - Moderate irritant	Rabbit	_	24 hours 100	_
tetraacetate				milligrams	
	Skin - Moderate irritant	Rabbit	_	24 hours 500	
	The state of the s	, tabbit		milligrams	
sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit		250	<u> </u>
odalam dodocy odipricio	Lycs - wild irritarit	INADDIL	ļ <sup>-</sup>	Micrograms	_
	Eyes - Moderate irritant	Rabbit		24 hours 100	
	Lyes - wouerate initant	Izannit	-		-
	Even Moderata instant	D-1-6#		milligrams	
· · · · · · · · · · · · · · · · · · ·	Eyes - Moderate irritant	Rabbit	<b>-</b> .	10 milligrams	<del>-</del>
	Skin - Mild irritant	Dog	-	24 hours 25	-
			**	milligrams	
	Skin - Mild irritant	Guinea pig	-	24 hours 25	•
				milligrams	
	Skin - Mild irritant	Human	-	2 hours 2	<b>-</b> .
				Percent	
	Skin - Mild irritant	Human	-	504 hours 0.3	_
		V		Percent	
and the second of the second	Skin - Mild irritant	Human	<b> -</b> '.	24 hours 0.06	-
			1.1	Percent	·
	Skin - Mild irritant	Human	_	22 hours 10	
				Percent	
	Skin - Mild irritant	Human	_	47 hours 0.5	
			1	Percent	
	Skin - Mild irritant	Human	]_	18 hours 2	
	Onthe Introduction	I i i i i i i i i i i i i i i i i i i		Percent	i.,
	Skin - Moderate irritant	Human		48 hours 3	
	Okin - Woderate irritarit	Indinan		Percent	
	Skin - Moderate irritant	Human	1	24 hours 0.1	*•
	ONIT - WOUGHALE ITHIAIN	Iuiiiaii			<del>-</del>
	Claim Madagate ignita-t	Marian	1	Percent	
	Skin - Moderate irritant	Mouse	- · .	24 hours 25	<del>-</del>
				milligrams	
	Skin - Mild irritant	Pig	-	24 hours 25	-
				milligrams	-'
	Skin - Mild irritant	Rabbit	-	24 hours 50	-
		1 · 1 · 1 · 1		milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 25	-
		1		milligrams	

**Sensitization** 

Not available.

# Section 11. Toxicological information

#### **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

#### Classification

Product/ingredient name	OSHA	IARC	NTP		
2-Butoxyethanol; Ethylene		3	-		
glycol monobutyl ether					

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name		Category	Route of	Target organs
			exposure	
sodium xylenesulphonate		Category 3	Not applicable.	Respiratory tract
				irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

No known significant effects or critical hazards.

Skin contact

: Causes skin irritation.

Ingestion

: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation

No specific data.

Skin contact

Adverse symptoms may include the following:

irritation

redness

Ingestion

: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

Not available.

effects

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# Section 11. Toxicological information

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

#### Potential chronic health effects

Not available.

General

: No known significant effects or critical hazards.

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity

: No known significant effects or critical hazards.

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	<u>.</u>		ATE value	
Oral Dermal Inhalation (vapors)			4902.2 mg/kg 11224.5 mg/kg 112.2 mg/l	

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
2-Butoxyethanol; Ethylene glycol monobutyl ether	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
etrasodium ethylene diamine etraacetate	Acute LC50 486000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina - Adult	48 hours
	Acute LC50 1400 μg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours
	Acute LC50 590 µg/l Fresh water	Fish - Cirrhinus mrigala - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - Pseudosida ramosa - Neonate	21 days
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC >1357 µg/l Fresh water	Fish - Pimephales promelas	42 days

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

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					- 1

## Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
2-Butoxyethanol; Ethylene glycol monobutyl ether	0.81	-	low
tetrasodium ethylene diamine	5.01	1.8	low
tetraacetate sodium xylenesulphonate sodium dodecyl sulphate	-3.12 -2.03	<u>.</u>	low low

#### **Mobility** in soil

Soil/water partition coefficient (Koc)

Not available.

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-			<b>-</b>
Packing group	Name :	- :		• 4. 4. 1.		•
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	_	<b>-</b>	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### **Section 14. Transport information**

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

### Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) PAIR: (2-methoxymethylethoxy)propanol

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Not determined.

Clean Water Act (CWA) 311: sodium hydroxide

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances

: Not listed

Clean Air Act Section 602

: Not listed

Class II Substances

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

#### **SARA 302/304**

#### Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification

: Immediate (acute) health hazard

#### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
	≥8 - <10	No.	No.	No.	Yes.	No.
monobutyl ether tetrasodium ethylene diamine tetraacetate	≥1.2 - <3	Yes.	No.	No.	Yes.	No.
sodium xylenesulphonate sodium dodecyl sulphate	≥1 - <3 ≥1 - <2	No. Yes.	No. No.	No. No.	Yes. Yes.	No. No.

#### **SARA 313**

	٠. ٠	Product name	÷.		CAS number	%	
Form R - Reporting		2-butoxyethanol			111-76-2	≥8 - <10	
requirements							
Supplier notification	٠	2-butoxyethanol	·	٠	111-76-2	≥8 - <10	

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

Massachusetts

: The following components are listed: 2-BUTOXYETHANOL

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### Section 15. Regulatory information

New York

: None of the components are listed.

**New Jersey** 

: The following components are listed: 2-BUTOXY ETHANOL; BUTYL CELLOSOLVE

Pennsylvania

The following components are listed: ETHANOL, 2-BUTOXY-

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A. B. C. E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

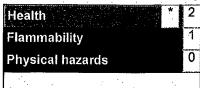
#### **International lists**

#### **National inventory**

**Australia** Not determined. Canada : Not determined. China Not determined. Europe Not determined. Japan Not determined. **Malaysia** Not determined. **New Zealand** Not determined. **Philippines** Not determined. Republic of Korea Not determined. Taiwan Not determined.

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)

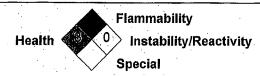


Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

#### National Fire Protection Association (U.S.A.)

### Section 16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

	Classification			Justification		
Skin Irrit. 2, H315			Calculation method			
Eye Irrit. 2A, H319	·. ·		Calculation method		<u> </u>	

#### <u>History</u>

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4/30/2015.

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Version

: 2

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978, ("Marpol" = marine pollution)

UN = United Nations

References

Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot quarantee that these are the only hazards that exist.