SAFETY DATA SHEET



AF79

GHS product identifier	: AF79
Product code	: 079
Other means of identification	: Not available.
Product type	: Liquid.
	f the substance or mixture and uses advised against
Identified uses	
Disinfectant	
Uses advised against Not applicable.	
Supplier's details	: Betco Corporation
	400 Van Camp Road Bowling Green, Ohio 43402
	www.betco.com
	888-462-3826
Emergency telephone number	: Chemtrec (800) 424-9300 24 hour
Section 2. Hazar	ds identification
	: This material is considered hazardous by the OSHA Hazard Communication Standard
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
OSHA/HCS status Classification of the	: This material is considered hazardous by the OSHA Hazard Communication Standard
OSHA/HCS status Classification of the substance or mixture	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
OSHA/HCS status Classification of the substance or mixture <u>GHS label elements</u> Hazard pictograms	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
OSHA/HCS status Classification of the substance or mixture <u>GHS label elements</u>	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). EYE IRRITATION - Category 2A
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OSHA/HCS status Classification of the substance or mixture GHS label elements Hazard pictograms	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). EYE IRRITATION - Category 2A Warning Causes serious eye irritation.
OSHA/HCS status Classification of the substance or mixture <u>GHS label elements</u> Hazard pictograms Signal word Hazard statements	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). EYE IRRITATION - Category 2A Warning Causes serious eye irritation.
OSHA/HCS status Classification of the substance or mixture <u>GHS label elements</u> Hazard pictograms Signal word Hazard statements <u>Precautionary statements</u>	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). EYE IRRITATION - Category 2A Warning Causes serious eye irritation. Wear eye or face protection: Recommended: safety glasses with side-shields. Wash
OSHA/HCS status Classification of the substance or mixture <u>GHS label elements</u> Hazard pictograms Signal word Hazard statements <u>Precautionary statements</u> Prevention	 : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). : EYE IRRITATION - Category 2A : Warning : Causes serious eye irritation. : Wear eye or face protection: Recommended: safety glasses with side-shields. Wash thoroughly after handling. : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, ir present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice of the second se
OSHA/HCS status Classification of the substance or mixture GHS label elements Hazard pictograms Signal word Hazard statements <u>Precautionary statements</u> Prevention Response	 : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). : EYE IRRITATION - Category 2A : Warning : Causes serious eye irritation. : Wear eye or face protection: Recommended: safety glasses with side-shields. Wash thoroughly after handling. : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, i present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice of attention.

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

- : Mixture
- : Not available.

Ingredient name	%	CAS number
2-(2-butoxyethoxy)ethanol	≤3	112-34-5
tetrasodium ethylene diamine tetraacetate	≤3	64-02-8

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 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. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Wash out mouth with water. Remove dentures if any. 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 h	ealth effects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure s</u>	igns/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Section 4. First aid measures

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 media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing 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	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen 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, protect	iv	e 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.
For emergency responders	:	If specialized 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 non-emergency 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 co	nta	ainment 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.

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Section 6. Accidental release measures

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. Keep away from acids. 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 befor entering eating areas. See also Section 8 for additional information on hygiene measures.	e
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. Separate from acids. 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. See Section 10 for incompatible materials before handling or use.	;

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
2-(2-butoxyethoxy)ethanol	ACGIH TLV (United States, 1/2022).
	TWA: 10 ppm 8 hours. Form: Inhalable
	fraction and vapor
tetrasodium ethylene diamine tetraacetate	None.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls	1	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

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.

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Section 8. Exposure controls/personal protection

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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.
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	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Personal protective equipment (Pictograms)	

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Clear. Blue.
Odor	: Pleasant.
Odor threshold	: Not available.
рН	: 11.5 to 12.5
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not available.
Flash point	: Closed cup: >150°C (>302°F) [Product does not sustain combustion.]
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: Not available.

Vapor pressure

Vapor pressure	:						
	V	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Date of issue/Date of revision	: 4/18/2024	Date	of previous issue	: No previous	validation	Version : 1	5/12

Section 9. Physical and chemical properties and safety characteristics

characteristics							
ethanol	42.95	5.7			Not applicable		
water	17.5	2.3					
Linalyl acetate	<0.75	<0.1					
nerol	0.45	0.06		2.4	0.32		
Linalool	0.2	0.027	OECD 104				
benzyl acetate	0.18	0.024					
2,6-dimethyloct-7-en-2-ol	0.15	0.02	EU A.4				
2-phenylethanol	0.06	0.008					
4-tert-butylcyclohexyl acetate	0.059	0.0079					
alpha-Terpineol	0.049	0.0065					
2-(2-butoxyethoxy)ethanol	0.022	0.0029					
2-methylundecanal	0.0064	0.00085					
1,3,4,6,7,8-hexahydro- 4,6,6,7,8,8-hexamethylindeno [5,6-c]pyran	0.00055	0.000073	OECD 104				
tetrasodium ethylene diamine tetraacetate	0	0					
p-t-Butyl-alpha- methylhydrocinnamic aldehyde	0	0					
geraniol	0	0					
Relative vapor density : Not available.							
Relative density	: 1.006	5					
Solubility(ies)	:						
Media	Result						
cold water hot water	Easily soluble Easily soluble						
Solubility in water	: Not a	vailable.					
Miscible with water	: Yes.						
Partition coefficient: n- octanol/water	: Not a	pplicable.					
Auto-ignition temperature	:						
Ingredient name		°C	°F		Method		
2-methylundecanal		195 to 21	195 to 215 383 to 419				
2-(2-butoxyethoxy)ethanol		210	410		DIN 51794		
tetrasodium ethylene diamine tetra	aacetate	>200	>200 >392				
trisodium nitrilotriacetate		>200	>392				
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8- [5,6-c]pyran	hexamethylir	ideno >200	>392				
Linalool		235	455				
Linalyl acetate		270	518		EU A.15		
ethanol		455	851		DIN 51794		
benzyl acetate		460	860				
Decomposition temperature	: Not a	vailable.	•				
Viscosity	: Not a	vailable.					
Particle characteristics							
Median particle size	: Not a	pplicable.					

Date of issue/Date of revision

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Version :1

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	: Reactive or incompatible with the following materials: acids
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

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal LD50 Oral		2700 mg/kg 4500 mg/kg	-
tetrasodium ethylene diamine tetraacetate	LD50 Oral		10 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
tetrasodium ethylene diamine tetraacetate	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure	:	Routes of entry anticipated: Dermal, Eyes. Routes of entry not anticipated: Oral, Inhalation.
Potential acute health effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physi	ic	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation

	watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

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

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
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.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
2-(2-butoxyethoxy)ethanol	4500	2700	N/A	N/A	N/A
tetrasodium ethylene diamine tetraacetate	500	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
		Fish - <i>Lepomis macrochirus</i> Fish - <i>Lepomis macrochirus</i>	96 hours 96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol tetrasodium ethylene diamine tetraacetate	1 5.01	- 1.8	Low Low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects	: No known significant effects or critical hazards.
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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	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Additional information

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Section 14. Transport information

DOT Classification	1	Limited quantity Yes
		-
IMDG	4	Limited quantity Yes
ΙΑΤΑ	1	Limited quantity Yes
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.
Transport in bulk according to IMO instruments	;	Not available.

Section 15. Regulatory information

U		
U.S. Federal regulations :	TSCA 4(a) prop C12-16-alkyldim	osed test rules : Quaternary ammonium compounds, benzyl- ethyl, chlorides
	TSCA 8(a) PAIR 2-methylundeca	: α-hexylcinnamaldehyde; 2-(4-tert-butylbenzyl)propionaldehyde; nal
	TSCA 8(a) CDR	Exempt/Partial exemption: Not determined
Clean Air Act Section 112 : (b) Hazardous Air Pollutants (HAPs)	Listed	
Clean Air Act Section 602 : Class I Substances	Not listed	
Clean Air Act Section 602 : Class II Substances	Not listed	
DEA List I Chemicals : (Precursor Chemicals)	Not listed	
DEA List II Chemicals : (Essential Chemicals)	Not listed	
SARA 302/304		
Composition/information on	ingredients	
No products were found.		
SARA 304 RQ :	Not applicable.	
<u>SARA 311/312</u>		
Classification :	EYE IRRITATION	- Category 2A
Composition/information on	ingredients	
Name	%	Classification
2-(2-butoxyethoxy)ethanol	≤3 <2	EYE IRRITATION - Category 2A

<u>SARA 313</u>

tetraacetate

tetrasodium ethylene diamine

	Product name	CAS number	%
Form R - Reporting requirements	2-(2-butoxyethoxy)ethanol	112-34-5	≤3
Supplier notification	2-(2-butoxyethoxy)ethanol	112-34-5	≤3

ACUTE TOXICITY (oral) - Category 4

SERIOUS EYE DAMAGE - Category 1

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

Date of issue/Date of revision	: 4/18/2024	Date of previous issue	: No previous validation	
New York	: None of t	he components are listed.		
Massachusetts	: None of t	he components are listed.		

≤3

Section 15. Regulatory information New Jersey : The following components are lister

Pennsylvania

The following components are listed: GLYCOL ETHERSNone of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: At least one component is not listed.
Viet Nam	: 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 and the associated label are not required on SDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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

Section 16. Other information



Procedure used to derive the classification

	Classification	Justification
EYE IRRITATION - Categor	EYE IRRITATION - Category 2A	
History		- !
Date of printing	: 4/18/2024	
Date of issue/Date of revision	: 4/18/2024	
Date of previous issue	: No previous validation	
Version	: 1	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classificatio IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition co MARPOL = International Convention for the Prevent as modified by the Protocol of 1978. ("Marpol" = ma N/A = Not available SGG = Segregation Group UN = United Nations	efficient ion of Pollution From Ships, 1973
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 guarantee that these are the only hazards that exist.