SECTION 1: IDENTIFICATION

1.1 GHS Product identifier: SMR Ice Shield Plus Boot Cleaner

Other means of identification:

Not applicable (N/A)

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Cleaning solvent. For professional users/industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

SMR Technologies Inc.
93 Nettie Fenwick Road
Fenwick, WV 26202
Phone: 304-846-2554
info@iceshield.com;www.iceshield.com

1.4 Emergency phone number: Chemtrec1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Eye Dam. 1: Serious eye damage, Category 1, H318
Flam. Liq. 4: Flammable liquids, Category 4, H227
Skin Corr. 1B: Skin corrosion, Category 1B, H314
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

29 CFR 1910.1200:

Danger

Hazard statements:

Eye Dam. 1: H318 - Causes serious eye damage.
Flam. Liq. 4: H227 - Combustible liquid.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
STOT SE 3: H335 - May cause respiratory irritation.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378: In case of fire: Use {0} to extinguish.
P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Substances that contribute to the classification

ETHANOLAMINE (CAS: 141-43-5)

Additional labeling:

WARNING

- CONTINUED ON NEXT PAGE -

SECTION 2: HAZARD(S) IDENTIFICATION (continued)

Keep out of the reach of children
This product can expose you to chemicals including 2,2´-iminodiethanol, which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

2.3 Hazards not otherwise classified (HNOC):

Not applicable (N/A)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Solvent/s

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 111-76-2	**Ethylene glycol monobutyl ether** Acute Tox. 3: H331; Acute Tox. 4: H302; Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Danger	**2.5 - <10 %**
CAS: 141-43-5	**2-aminoethanol** Acute Tox. 4: H302+H312+H332; Flam. Liq. 4: H227; Skin Corr. 1B: H314 - Danger	**2.5 - <10 %**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Not applicable (N/A)

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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Combustible liquid. If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO_2).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

For accidental releases in excess of reportables quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

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SECTION 7: HANDLING AND STORAGE (continued)

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 41 ºF

Maximum Temp.: 90 ºF

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR1910.1000):

Identification	Occupational exposure limits		
Ethylene glycol monobutyl ether (1)	8-hour TWA PEL	50 ppm	240 mg/m³
CAS: 111-76-2	Ceiling Values - TWA PEL		
2-aminoethanol (1)	8-hour TWA PEL	3 ppm	6 mg/m³
CAS: 141-43-5	Ceiling Values - TWA PEL		

US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
Ethylene glycol monobutyl ether (1)	TLV-TWA	20 ppm	
CAS: 111-76-2	TLV-STEL		
2-aminoethanol (1)	TLV-TWA	3 ppm	
CAS: 141-43-5	TLV-STEL	6 ppm	
2,2´-iminodiethanol	TLV-TWA		2 mg/m³
CAS: 111-42-2	TLV-STEL		

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

Identification	Occupational exposure limits		
Ethylene glycol monobutyl ether (1)	PEL	20 ppm	97 mg/m³
CAS: 111-76-2	STEL		
2-aminoethanol (1)	PEL	3 ppm	8 mg/m³
CAS: 141-43-5	STEL	6 ppm	15 mg/m³
2,2´-iminodiethanol	PEL	0.46 ppm	2 mg/m³
CAS: 111-42-2	STEL		

(1) Likely absorption through the skin

Biological limit values:

Biological Exposure Indices (BEIs®) - ACGIH

Identification	BEIs®	Determinant	Sampling Time
Ethylene glycol monobutyl ether CAS: 111-76-2	200 mg/g (NULL)	Butoxyacetic acid (BAA) in urine	End of shift

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer´s use limitations and OSHA standard 1910.134 (29CFR)

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.4 mm)	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer´s use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer´s use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	For professional use only. Clean periodically according to the manufacturer´s instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	Replace boots at any sign of deterioration. Use foot protection in accordance with manufacturer´s use limitations and OSHA standard 1910.136 (29CFR)

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

*Not applicable (N/A) due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 ºF:	Liquid
Appearance:	Not available
Color:	Not available
Odor:	Not available
Odour threshold:	Not applicable (N/A) *

Volatility:

Boiling point at atmospheric pressure:	228 ºF
Vapour pressure at 74 ºF:	2732 Pa
Vapour pressure at 122 ºF:	11745.46 Pa (11.75 kPa)
Evaporation rate at 74 ºF:	Not applicable (N/A) *

Product description:

Density at 74 ºF:	1014.3 kg/m³
Relative density at 74 ºF:	1.014
Dynamic viscosity at 74 ºF:	Not applicable (N/A) *
Kinematic viscosity at 74 ºF:	Not applicable (N/A) *
Kinematic viscosity at 104 ºF:	Not applicable (N/A) *
Concentration:	Not applicable (N/A) *
pH:	Not applicable (N/A) *
Vapour density at 74 ºF:	Not applicable (N/A) *
Partition coefficient n-octanol/water 74 ºF:	Not applicable (N/A) *
Solubility in water at 74 ºF:	Not applicable (N/A) *
Solubility properties:	Not applicable (N/A) *
Decomposition temperature:	Not applicable (N/A) *
Melting point/freezing point:	Not applicable (N/A) *

Flammability:

Flash Point:	175 ºF
Flammability (solid, gas):	Not applicable (N/A) *
Autoignition temperature:	399 ºF
Lower flammability limit:	Not applicable (N/A) *
Upper flammability limit:	Not applicable (N/A) *

Particle characteristics:

Median equivalent diameter:	Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Not applicable (N/A) *
Oxidising properties:	Not applicable (N/A) *
Corrosive to metals:	Not applicable (N/A) *
Heat of combustion:	Not applicable (N/A) *
Aerosols-total percentage (by mass) of flammable components:	Not applicable (N/A) *

Other safety characteristics:

*Not applicable (N/A) due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Surface tension at 74ºF:	Not applicable (N/A) *
Refraction index:	Not applicable (N/A) *

*Not applicable (N/A) due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: Ethylene glycol monobutyl ether (3); 2,2´-iminodiethanol (2B)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not applicable (N/A)

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Ethylene glycol monobutyl ether CAS: 111-76-2	LD50 oral	1200 mg/kg (ATEi)	Rat
	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation	3 mg/L (ATEi)	
2-aminoethanol CAS: 141-43-5	LD50 oral	1089 mg/kg (ATEi)	Rat
	LD50 dermal	1100 mg/kg (ATEi)	
	LC50 inhalation	11 mg/L (ATEi)	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	5715.85 mg/kg (Calculation method)	0 %
Dermal	8061.23 mg/kg (Calculation method)	0 %
Inhalation	23.59 mg/L (4 h) (Calculation method)	0 %

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification	Concentration		Species	Genus
Ethylene glycol monobutyl ether CAS: 111-76-2	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
2-aminoethanol	LC50	349 mg/L (96 h)	Cyprinus carpio	Fish
CAS: 141-43-5	EC50	65 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	22 mg/L (72 h)	Scenedesmus subspicatus	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Ethylene glycol monobutyl ether	NOEC	100 mg/L	Danio rerio	Fish
CAS: 111-76-2	NOEC	100 mg/L	Daphnia magna	Crustacean
2-aminoethanol	NOEC	1.24 mg/L	Oryzias latipes	Fish
CAS: 141-43-5	NOEC	0.85 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specificinformation:

Identification	Degradability		Biodegradability	
Ethylene glycol monobutyl ether	BOD5	0.71 g O2/g	Concentration	100 mg/L
CAS: 111-76-2	COD	2.2 g O2/g	Period	14 days
	BOD5/COD	0.32	% Biodegradable	96 %
2-aminoethanol	BOD5	Not applicable (N/A)	Concentration	20 mg/L
CAS: 141-43-5	COD	Not applicable (N/A)	Period	21 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	90 %

12.3 Bioaccumulative potential:

Substance-specificinformation:

Identification	Bioaccumulation potential	
Ethylene glycol monobutyl ether	BCF	3
CAS: 111-76-2	Pow Log	0.83
	Potential	Low
2-aminoethanol	BCF	3
CAS: 141-43-5	Pow Log	-1.31
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Ethylene glycol monobutyl ether	Koc	8	Henry	1.621E-1 Pa·m³/mol
CAS: 111-76-2	Conclusion	Very High	Dry soil	No
	Surface tension	2.729E-2 N/m (77 ºF)	Moist soil	Yes
2-aminoethanol	Koc	0.27	Henry	3.7E-5 Pa·m³/mol
CAS: 141-43-5	Conclusion	Very High	Dry soil	No
	Surface tension	5.025E-2 N/m (77 ºF)	Moist soil	No

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

The next characteristic per RCRA could apply to the unused product if it becomes a waste material: Corrosivity. The next EPA hazardous waste number could apply: D002.
IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly.Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.See section 6 for further information about Accidental release measures.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.
State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state´s policies.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

14.1	**UN number:**	UN3066
14.2	**UN proper shipping name:**	PAINT RELATED MATERIAL
14.3	**Transport hazard class(es):**	8
	Labels:	8
14.4	**Packing group, if applicable:**	II
14.5	**Marine pollutant:**	No
14.6	**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**	
	Physico-Chemical properties:	see section 9
	Limited quantities:	1 L
14.7	**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):**	Not applicable (N/A)

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

14.1	**UN number:**	UN3066
14.2	**UN proper shipping name:**	PAINT RELATED MATERIAL
14.3	**Transport hazard class(es):**	8
	Labels:	8
14.4	**Packing group, if applicable:**	II
14.5	**Marine pollutant:**	No
14.6	**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**	
	Special regulations:	163, 367
	EmS Codes:	F-A, S-B
	Physico-Chemical properties:	see section 9
	Limited quantities:	1 L
	Segregation group:	Not applicable (N/A)
14.7	**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):**	Not applicable (N/A)

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

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SECTION 14: TRANSPORT INFORMATION (continued)

14.1	**UN number:**	UN3066
14.2	**UN proper shipping name:**	PAINT RELATED MATERIAL
14.3	**Transport hazard class(es):**	8
	Labels:	8
14.4	**Packing group, if applicable:**	II
14.5	**Marine pollutant:**	No
14.6	**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**	
	Physico-Chemical properties:	see section 9
14.7	**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):**	Not applicable (N/A)

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

- CALIFORNIA LABOR CODE - The Hazardous Substances List: *Ethylene glycol monobutyl ether (111-76-2)* ; *2-aminoethanol (141-43-5)* ; *2,2´-iminodiethanol (111-42-2)*
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Not applicable (N/A)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: *2,2´-iminodiethanol (111-42-2)*
- CANADA-Domestic Substances List (DSL): *Ethylene glycol monobutyl ether (111-76-2)* ; *Diethylene glycol monobutyl ether (112-34-5)* ; *Triethylene glycol monobutyl ether (143-22-6)* ; *Diethylene glycol monoethyl ether (111-90-0)* ; *Xanthan gum (11138-66-2)* ; *Water (7732-18-5)* ; *2-aminoethanol (141-43-5)* ; *2,2´-iminodiethanol (111-42-2)*
- CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: *Ethylene glycol monobutyl ether (111-76-2) - 1 lb* ; *Diethylene glycol monobutyl ether (112-34-5) - 1 lb* ; *Triethylene glycol monobutyl ether (143-22-6) - 1 lb* ; *Diethylene glycol monoethyl ether (111-90-0) - 1 lb* ; *2,2´-iminodiethanol (111-42-2) - 100 lb*
- Hazardous Air Pollutants (Clean Air Act): *Ethylene glycol monobutyl ether (111-76-2)* ; *Diethylene glycol monobutyl ether (112-34-5)* ; *Triethylene glycol monobutyl ether (143-22-6)* ; *Diethylene glycol monoethyl ether (111-90-0)* ; *2,2´-iminodiethanol (111-42-2)*
- Massachusetts RTK - Substance List: *Ethylene glycol monobutyl ether (111-76-2)* ; *Diethylene glycol monobutyl ether (112-34-5)* ; *Triethylene glycol monobutyl ether (143-22-6)* ; *Diethylene glycol monoethyl ether (111-90-0)* ; *2-aminoethanol (141-43-5)* ; *2,2´-iminodiethanol (111-42-2)*
- Minnesota - Hazardous substances ERTK: *Ethylene glycol monobutyl ether (111-76-2)* ; *2-aminoethanol (141-43-5)* ; *2,2´-iminodiethanol (111-42-2)*
- New Jersey Worker and Community Right-to-Know Act: *Ethylene glycol monobutyl ether (111-76-2)* ; *Diethylene glycol monobutyl ether (112-34-5)* ; *Triethylene glycol monobutyl ether (143-22-6)* ; *Diethylene glycol monoethyl ether (111-90-0)* ; *2-aminoethanol (141-43-5)* ; *2,2´-iminodiethanol (111-42-2)*
- New York RTK - Substance list: *Ethylene glycol monobutyl ether (111-76-2)* ; *Diethylene glycol monobutyl ether (112-34-5)* ; *Triethylene glycol monobutyl ether (143-22-6)* ; *Diethylene glycol monoethyl ether (111-90-0)* ; *2-aminoethanol (141-43-5)* ; *2,2´-iminodiethanol (111-42-2)*
- NTP (National Toxicology Program): Not applicable (N/A)
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Not applicable (N/A)
- Pennsylvania Worker and Community Right-to-Know Law: *Ethylene glycol monobutyl ether (111-76-2)* ; *Diethylene glycol monobutyl ether (112-34-5)* ; *Triethylene glycol monobutyl ether (143-22-6)* ; *Diethylene glycol monoethyl ether (111-90-0)* ; *2-aminoethanol (141-43-5)* ; *2,2´-iminodiethanol (111-42-2)*
- Rhode Island - Hazardous substances RTK: *Ethylene glycol monobutyl ether (111-76-2)* ; *Diethylene glycol monobutyl ether (112-34-5)* ; *Triethylene glycol monobutyl ether (143-22-6)* ; *Diethylene glycol monoethyl ether (111-90-0)* ; *2,2´-iminodiethanol (111-42-2)*
- The Toxic Substances Control Act (TSCA) : *Ethylene glycol monobutyl ether (111-76-2)* ; *Diethylene glycol monobutyl ether (112-34-5)* ; *Triethylene glycol monobutyl ether (143-22-6)* ; *Diethylene glycol monoethyl ether (111-90-0)* ; *Xanthan gum (11138-66-2)* ; *Water (7732-18-5)* ; *2-aminoethanol (141-43-5)* ; *2,2´-iminodiethanol (111-42-2)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *Ethylene glycol monobutyl ether (111-76-2)* ; *Diethylene glycol monobutyl ether (112-34-5)* ; *Triethylene glycol monobutyl ether (143-22-6)* ; *Diethylene glycol monoethyl ether (111-90-0)* ; *2,2´-iminodiethanol (111-42-2)*

Specific provisions in terms of protecting people or the environment:

- CONTINUED ON NEXT PAGE -

SECTION 15: REGULATORY INFORMATION (continued)

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H227: Combustible liquid.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Acute Tox. 3: H331 - Toxic if inhaled.
Acute Tox. 4: H302 - Harmful ifswallowed.
Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.
Eye Irrit. 2A: H319 - Causes serious eye irritation.
Flam. Liq. 4: H227 - Combustible liquid.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.

Advice related to training:

According to 29 CFR 1910. 1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
IARC: International Agency for Research on Cancer

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END OF SAFETY DATASHEET