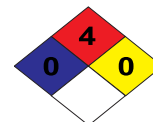




EX554W0908 - ACRYLIC GLOSS VARNISH



SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** EX554W0908 - ACRYLIC GLOSS VARNISH
Other means of identification:
 Not applicable (N/A)
- 1.2 Recommended use of the chemical and restrictions on use:**
 Relevant uses: Varnish
 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:**
 ACRYLICOS VALLEJO, S.L.
 c/Eusebio Millán 14
 08800 Vilanova i la Geltrú - Barcelona - España
 Phone: +34 93 8936012 (8:00-18:00 h.) - Fax: +34 93 8931154
 vallejo@acrylicosvallejo.com
- 1.4 Emergency phone number:** +34 93 8936012 (8:00-18:00 h. GMT +1:00)

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
NFPA:
 Health Hazards: 0
 Flammability Hazards: 4
 Instability Hazards: 0
 Special Hazards: Not applicable (N/A)
- 29 CFR 1910.1200:**
 Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.
 Aerosol 1: Flammable aerosols, Category 1, H222; Aerosol 1: Pressurised container: May burst if heated., H229
- 2.2 Label elements:**
NFPA:
-
- 29 CFR 1910.1200:**
Danger
-
- Hazard statements:**
 H222 - Extremely flammable aerosol.
 H229 - Pressurized container: may burst if heated.
- Precautionary statements:**
 P101: If medical advice is needed, have product container or label at hand.
 P102: Keep out of reach of children.
 P103: Read label before use.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211: Do not spray on an open flame or other ignition source.
 P251: Do not pierce or burn, even after use.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
 P501: Dispose of the contents/containers according to the local, state and federal regulations.
- Additional labeling:**

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SECTION 2: HAZARD(S) IDENTIFICATION (continued)



WARNING

FEDERAL HAZARDOUS SUBSTANCES ACT REGULATIONS (§1500.130 Self-pressurized containers: labeling):
Warning—contents under pressure.

Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120 °F. Keep out of the reach of children.

This product can expose you to chemicals including Ethyl acrylate, 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: Aerosol

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: 115-10-6	Dimethyl ether Flam. Gas 1A: H220; Press. Gas: H280 - Danger	 30 - <50 %
CAS: 64-17-5	ethanol Eye Irrit. 2A: H319; Flam. Liq. 2: H225 - Danger	 20 - <30 %
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol Eye Irrit. 2A: H319 - Warning	 1 - <2,5 %
CAS: 7664-41-7	ammonia, anhydrous Acute Tox. 3: H331; Flam. Gas 2: H221; Press. Gas: H280; Skin Corr. 1B: H314 - Danger	   0,05 - <0,3 %

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:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. 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:

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SECTION 4: FIRST-AID MEASURES (continued)

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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)

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

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. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

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 reportable 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

- CONTINUED ON NEXT PAGE -



SECTION 7: HANDLING AND STORAGE (continued)

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for 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

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 °F
Maximum Temp.: 122 °F
Maximum time: 60 Months

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 CFR 1910.1000):

Identification	Occupational exposure limits		
	8-hour TWA PEL	50 ppm	35 mg/m ³
ammonia, anhydrous CAS: 7664-41-7	Ceiling Values - TWA PEL		
ethanol CAS: 64-17-5	8-hour TWA PEL	1000 ppm	1900 mg/m ³
	Ceiling Values - TWA PEL		
Ethyl acrylate CAS: 140-88-5	8-hour TWA PEL	25 ppm	100 mg/m ³
	Ceiling Values - TWA PEL		

US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
	TLV-TWA	1000 ppm	
Dimethyl ether CAS: 115-10-6	TLV-STEL		
ammonia, anhydrous CAS: 7664-41-7	TLV-TWA	25 ppm	
	TLV-STEL	35 ppm	
ethanol CAS: 64-17-5	TLV-TWA		
	TLV-STEL	1000 ppm	
Ethyl acrylate CAS: 140-88-5	TLV-TWA	5 ppm	
	TLV-STEL	15 ppm	

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

Identification	Occupational exposure limits		
	PEL	25 ppm	18 mg/m ³
ammonia, anhydrous CAS: 7664-41-7	STEL	35 ppm	27 mg/m ³
ethanol CAS: 64-17-5	PEL	1000 ppm	1900 mg/m ³
	STEL		
Ethyl acrylate CAS: 140-88-5	PEL	5 ppm	20 mg/m ³
	STEL	25 ppm	100 mg/m ³

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.2 Appropriate engineering controls:


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

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
 Compulsory use of face mask	Filter mask for particles	Replace when an increase in resistance to breathing is observed. 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: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 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	Panoramic glasses against splash/projections.	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	Antistatic and fireproof protective clothing	Limited protection against flames.
 Mandatory foot protection	Safety footwear with antistatic and heat resistant properties	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

40 CFR Part 59 (VOC):

V.O.C.(weight-percent): 65.58 % weight

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EX554W0908 - ACRYLIC GLOSS VARNISH



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

V.O.C. at 68 °F: 644.13 kg/m³ (644.13 g/L)
Components: Not applicable (N/A)

California Air Resources Board (CARB) - VOC Regulatory:

V.O.C.(weight-percent): 65.58 % weight
V.O.C. at 68 °F: 644.13 kg/m³ (644.13 g/L)

South Coast Air Quality Management District (AQMD) - VOC Regulatory:

V.O.C.(weight-percent): 65.58 % weight
V.O.C. at 68 °F: 644.13 kg/m³ (644.13 g/L)

Ozone Transport Commission (OTC) Rules - VOC Regulatory:

V.O.C.(weight-percent): 65.58 % weight
V.O.C. at 68 °F: 644.13 kg/m³ (644.13 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F: Aerosol
Appearance: Not available
Color: Colorless
Odor: Not available
Odour threshold: Not applicable (N/A) *

Volatility:

Boiling point at atmospheric pressure: -13 °F (Propellant)
Vapour pressure at 68 °F: Not applicable (N/A) *
Vapour pressure at 122 °F: <300000 Pa (300 kPa)
Evaporation rate at 68 °F: Not applicable (N/A) *

Product description:

Density at 68 °F: 799 kg/m³
Relative density at 68 °F: Not applicable (N/A) *
Dynamic viscosity at 68 °F: Not applicable (N/A) *
Kinematic viscosity at 68 °F: Not applicable (N/A) *
Kinematic viscosity at 104 °F: Not applicable (N/A) *
Concentration: Not applicable (N/A) *
pH: 9.5 - 10.5
Vapour density at 68 °F: Not applicable (N/A) *
Partition coefficient n-octanol/water 68 °F: Not applicable (N/A) *
Solubility in water at 68 °F: Not applicable (N/A) *
Solubility properties: Not applicable (N/A) *
Decomposition temperature: Not applicable (N/A) *
Melting point/freezing point: Not applicable (N/A) *
Recipient pressure: Not applicable (N/A) *

Flammability:

Flash Point: -42 °F (Propellant)

*Not relevant 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)

Flammability (solid, gas): Not applicable (N/A) *
Autoignition temperature: 464 °F (Propellant)
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:

Surface tension at 68 °F: Not applicable (N/A) *
Refraction index: Not applicable (N/A) *

*Not relevant 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.

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	Avoid direct impact	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 (CO₂), 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:

- CONTINUED ON NEXT PAGE -



SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- A- Ingestion (acute effect):
- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- 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: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
 - Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
- 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: ethanol (1); Ethyl acrylate (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:
- 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.
- 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
	LD50 oral	LD50 dermal	
Dimethyl ether CAS: 115-10-6	>5000 mg/kg	>5000 mg/kg	
		308.5 mg/L (4 h)	Rat
	6200 mg/kg	20000 mg/kg	Rat
ethanol CAS: 64-17-5	6200 mg/kg	20000 mg/kg	Rabbit
		124.7 mg/L (4 h)	Rat
	>5000 mg/kg	>5000 mg/kg	
2-(2-butoxyethoxy)ethanol CAS: 112-34-5	>5000 mg/kg	>5000 mg/kg	
	>5000 mg/kg	>20 mg/L	
	>20 mg/L		

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
ammonia, anhydrous CAS: 7664-41-7	LD50 oral	>5000 mg/kg	
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	3 mg/L (ATEi)	

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification	Concentration		Species	Genus
ethanol CAS: 64-17-5	LC50	11000 mg/L (96 h)	Alburnus alburnus	Fish
	EC50	9268 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1450 mg/L (192 h)	Microcystis aeruginosa	Algae
2-(2-butoxyethoxy)ethanol CAS: 112-34-5	LC50	1300 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	2850 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	53 mg/L (192 h)	Microcystis aeruginosa	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
ethanol CAS: 64-17-5	NOEC	250 mg/L	Danio rerio	Fish
	NOEC	2 mg/L	Ceriodaphnia dubia	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
ethanol CAS: 64-17-5	BOD5	Not applicable (N/A)	Concentration	100 mg/L
	COD	Not applicable (N/A)	Period	14 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	89 %
2-(2-butoxyethoxy)ethanol CAS: 112-34-5	BOD5	0.25 g O2/g	Concentration	100 mg/L
	COD	2.08 g O2/g	Period	28 days
	BOD5/COD	0.12	% Biodegradable	92 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
ethanol CAS: 64-17-5	BCF	3
	Pow Log	-0.31
	Potential	Low
2-(2-butoxyethoxy)ethanol CAS: 112-34-5	BCF	0.46
	Pow Log	0.56
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Dimethyl ether CAS: 115-10-6	Koc	Not applicable (N/A)	Henry	Not applicable (N/A)
	Conclusion	Not applicable (N/A)	Dry soil	Not applicable (N/A)
	Surface tension	1.136E-2 N/m (77 °F)	Moist soil	Not applicable (N/A)
ethanol CAS: 64-17-5	Koc	1	Henry	4.61E-1 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.339E-2 N/m (77 °F)	Moist soil	Yes

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
2-(2-butoxyethoxy)ethanol CAS: 112-34-5	Koc	48	Henry	7.2E-9 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	No
	Surface tension	3.395E-2 N/m (77 °F)	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:

Standards for universal waste management (Title 40 of the Code of Federal Regulations (CFR) in part 273) could apply to the unused Aerosol can if it becomes a waste material.

Wastes generated by normal household activities (e.g., routine house and yard maintenance) are excluded from the definition of hazardous waste (Title 40 of the Code of Federal Regulations Part 261.4)

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:** UN1950
- 14.2 UN proper shipping name:** AEROSOLS
- 14.3 Transport hazard class(es):** 2
- Labels: 2.1
- 14.4 Packing group, if applicable:** N/A
- 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)

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

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SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number:** UN1950
- 14.2 UN proper shipping name:** AEROSOLS
- 14.3 Transport hazard class(es):** 2
Labels: 2.1
- 14.4 Packing group, if applicable:** N/A
- 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: 63, 959, 190, 277, 327, 344
EmS Codes: F-D, S-U
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 2023:



- 14.1 UN number:** UN1950
- 14.2 UN proper shipping name:** AEROSOLS
- 14.3 Transport hazard class(es):** 2
Labels: 2.1
- 14.4 Packing group, if applicable:** N/A
- 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)

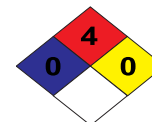
SECTION 15: REGULATORY INFORMATION

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

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SECTION 15: REGULATORY INFORMATION (continued)

- CALIFORNIA LABOR CODE - The Hazardous Substances List: *ammonia, anhydrous (7664-41-7)*; *ethanol (64-17-5)*; *Ethyl acrylate (140-88-5)*
- 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: *Ethyl acrylate (140-88-5)*
- CANADA-Domestic Substances List (DSL): *Dimethyl ether (115-10-6)*; *Water (7732-18-5)*; *ammonia, anhydrous (7664-41-7)*; *Denatonium benzoate (3734-33-6)*; *ethanol (64-17-5)*; *2-(2-butoxyethoxy)ethanol (112-34-5)*; *benzoic acid, compound with 2-aminoethanol (1:1) (4337-66-0)*; *Acrylic resin (29354-75-4)*; *Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)*; *Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (82919-37-7)*; *Polyethyleneglycol 600 (25322-68-3)*; *Poly(dimethylsiloxane) (63148-62-9)*; *Ethyl acrylate (140-88-5)*
- CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: *ammonia, anhydrous (7664-41-7) - 100 lb*; *2-(2-butoxyethoxy)ethanol (112-34-5) - 1 lb*; *Ethyl acrylate (140-88-5) - U113*
- Hazardous Air Pollutants (Clean Air Act): *2-(2-butoxyethoxy)ethanol (112-34-5)*; *Ethyl acrylate (140-88-5)*
- Massachusetts RTK - Substance List: *Dimethyl ether (115-10-6)*; *ammonia, anhydrous (7664-41-7)*; *ethanol (64-17-5)*; *2-(2-butoxyethoxy)ethanol (112-34-5)*; *Ethyl acrylate (140-88-5)*
- Minnesota - Hazardous substances ERTK: *Dimethyl ether (115-10-6)*; *ammonia, anhydrous (7664-41-7)*; *ethanol (64-17-5)*; *Polyethyleneglycol 600 (25322-68-3)*; *Ethyl acrylate (140-88-5)*
- New Jersey Worker and Community Right-to-Know Act: *Dimethyl ether (115-10-6)*; *ammonia, anhydrous (7664-41-7)*; *ethanol (64-17-5)*; *2-(2-butoxyethoxy)ethanol (112-34-5)*; *Ethyl acrylate (140-88-5)*
- New York RTK - Substance list: *Dimethyl ether (115-10-6)*; *ammonia, anhydrous (7664-41-7)*; *ethanol (64-17-5)*; *2-(2-butoxyethoxy)ethanol (112-34-5)*; *Ethyl acrylate (140-88-5)*
- 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: *Dimethyl ether (115-10-6)*; *ammonia, anhydrous (7664-41-7)*; *ethanol (64-17-5)*; *2-(2-butoxyethoxy)ethanol (112-34-5)*; *Ethyl acrylate (140-88-5)*
- Rhode Island - Hazardous substances RTK: *ammonia, anhydrous (7664-41-7)*; *2-(2-butoxyethoxy)ethanol (112-34-5)*; *Ethyl acrylate (140-88-5)*
- The Toxic Substances Control Act (TSCA) : *Dimethyl ether (115-10-6)*; *Water (7732-18-5)*; *ammonia, anhydrous (7664-41-7)*; *Denatonium benzoate (3734-33-6)*; *ethanol (64-17-5)*; *2-(2-butoxyethoxy)ethanol (112-34-5)*; *benzoic acid, compound with 2-aminoethanol (1:1) (4337-66-0)*; *Acrylic resin (29354-75-4)*; *Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)*; *Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (82919-37-7)*; *Polyethyleneglycol 600 (25322-68-3)*; *Poly(dimethylsiloxane) (63148-62-9)*; *Ethyl acrylate (140-88-5)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *ammonia, anhydrous (7664-41-7)*; *2-(2-butoxyethoxy)ethanol (112-34-5)*; *Ethyl acrylate (140-88-5)*

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal 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:

H222: Extremely flammable aerosol.

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.

Eye Irrit. 2A: H319 - Causes serious eye irritation.

Flam. Gas 1A: H220 - Extremely flammable gas.

Flam. Gas 2: H221 - Flammable gas.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Press. Gas: H280 - Contains gas under pressure, may explode if heated.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

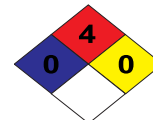
Advice related to training:

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Safety data sheet
according to 29 CFR 1910.1200

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SECTION 16: OTHER INFORMATION (continued)

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

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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Manufacturer Disclaimer: The information contained in this safety data sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).

END OF SAFETY DATA SHEET

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