SILVER FERN

SILVER FERN CHEMICAL, INC.

Safety Data Sheet

Glycol Ether EB

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: Glycol Ether EB

Synonym(s): Ethylene glycol monobutyl ether; Ethylene glycol butyl ether (EGBE); Butyl glycol ether; 2-Butoxyethanol; 2-Butoxy-1-ethanol

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

General use: Industrial and laboratory applications

Uses advised against: None known

1.3 Details of the supplier and of the safety data sheet

Manufacturer/Distributor

Silver Fern Chemical, Inc.

121 W. De La Guerra Street. Suite B Santa Barbara, CA 93101 USA Phone: 1-866-282-3384

Website - www.silverfernchemical.com; Email - info@silverfernchemical.com

1.4 Emergency telephone number

Infotrac +1-800-535-5053; (USA & Canada) Outside USA & Canada +1-352-323-3500

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Product definition: Substance

Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation EC No. 1272/2008

Flammable Liquid - Category 4 [H227] Acute Toxicity, Oral - Category 4 [H302] Acute Toxicity, Dermal - Category 4 [H312] Skin Irritation - Category 2 [H315]

Eye Irritation - Category 2A [H319]

Acute Toxicity, Inhalation - Category 4 [H332]

2.2 Label elements

Hazard symbol(s):



Signal word: Warning

Hazard statement(s): H227 - Combustible liquid

> H302 - Harmful if swallowed H312 - Harmful in contact with skin H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

Precautionary statements:

[Prevention] P210 - Keep away from heat, open flames and hot surface. No smoking.

P261 - Avoid breathing mist or vapor.

P264 - Wash hands and other skin areas exposed to material thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing and eye protection.

[Response] P301 + P330 + P312 - IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

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.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P321 - Specific treatment: Call a POISON CENTER or doctor. Refer to Section 4 of this SDS. P332 + P337 + P313 - If skin irritation occurs or if eye irritation persists: Get medical attention.

P362 - Take off contaminated clothing and wash before reuse.

P370 + P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.

Effective Date: 02 January 2021 Supersedes: 09 February 2017

[Storage] P403 + P235 - Store in a well-ventilated place. Keep cool.

[Disposal] P501 - Dispose of contents and containers in accordance with national and local regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

No data available

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

% by Weight	Ingredient	CAS Number	EC Number	Index Number	GHS Classification
< 99.5	2-Butoxyethanol	111-76-2	203-905-6	603-014-00-0	H227, H302, H312, H315,
					H319, H332

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

3.2 Mixtures

Not applicable

SECTION 4 – FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist or if the victim feels unwell, seek medical attention.

Eyes: Immediately flush eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do after first 2 minutes and continue rinsing. If irritation persists seek medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash the affected area with soap and water followed by thorough rinsing. Wash contaminated clothing and shoes before reuse. If irritation persists, seek medical attention.

Ingestion: Rinse mouth with water if the victim is conscious. Remove dentures if present. DO NOT induce vomiting unless directed to do so by medical personnel. Vomiting may occur spontaneously. To prevent aspiration of vomitous into the lungs, lay the victim on one side with the head lower than the waist. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes serious eye irritation with inflammation, pain and tearing. May cause moderate corneal injury. Effects may be slow to heal. Vapor or mist can cause eye irritation.

Skin: May cause skin irritation with localized redness, itching and discomfort. Prolonged and repeated contact with unprotected skin may cause burns, drying and cracking of the skin and dermatitis. Harmful if absorbed through the skin. Effects may be more severe on covered skin if product goes unnoticed under clothing or gloves.

Inhalation: Harmful if inhaled. May cause irritation of the respiratory tract and headache. May cause hemolysis and effect the liver and kidneys.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract with nausea, vomiting, abdominal pain and diarrhea.

Chronic: Individuals with pre-existing skin conditions and respiratory disorders may be more susceptible to the effects of this product. Prolonged or repeated skin contact may cause drying and cracking of the skin, dermatitis or aggravate existing skin conditions. 2-Butyoxethanol may be a human carcinogen. Refer to Section 11.2.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to doctor and hospital personnel

Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable methods of extinction: Use extinguishing media such as water spray or fog, carbon dioxide, foam and dry chemical. **Unsuitable methods of extinction:** Water jets or streams may spread the fire.

5.2 Special hazards arising from the substance or mixture

Combustible liquid! Vapors are heavier than air and can travel along the ground to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Exposure to ignition sources (e.g. cell phones) can ignite vapors, causing a flash fire. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

Explosion hazards: Avoid sources of ignition. Vapors may form an explosive mixture with air, especially in confined spaces. Ground and bond containers in storage and when container is in use.





5.3 Advice to firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Water contaminated by this material must be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear appropriate protective clothing and equipment designated in Section 8.2. Ventilate the area. Remove all sources of ignition. NO SMOKING. Clean up spills immediately. Spill creates a slip hazard.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements.

6.3 Methods and materials for containment and cleaning up

Approach spill from upwind direction. Cover drains and contain spill. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect material using non-sparking tools and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Do not allow material or runoff from rinsing contaminated areas to enter floor drains or storm drains and ditches that lead to waterways. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 – STORAGE AND HANDLING

7.1 Precautions for safe handling

Wear all appropriate personal protective equipment specified in Section 8.2. Do not get in eyes or on skin or clothing. Do not inhale mist or vapor. NO SMOKING. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Open containers slowly to control possible pressure release. Wash contaminated clothing and shoes thoroughly before reuse.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated areas away from incompatible materials (see Section 10.5), food and drink. Keep away from heat and ignition sources. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers are hazardous when empty as they contain product residue. Do not cut, drill, weld, braze, solder grind or perform similar operations on or near empty containers. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values

CAS Number	Ingredient	OSHA PEL	ACGIH TLV	NIOSH
111-76-2	2-Butoxyethanol	50 ppm; 240 mg/m ³ TWA; Skin	20 ppm; 97 mg/m ³ TWA; Skin	5 ppm; 24 mg/m³ TWA; Skin
				700 ppm IDLH

A "skin" notation following the inhalation exposure guideline refers to the potential for dermal absorption of the material, including eyes and mucous membranes, either by direct contact with vapors or by direct skin contact. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposure should be considered.

8.2 Exposure controls

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Effective Date: 02 January 2021
Supersedes: 09 February 2017
Safety



Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

Eye/face protection: Wear safety glasses with unperforated side shields or protective splash goggles during use.

Hand protection: Wear gloves made of butyl rubber or those recommenced by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Skin protection: Wear protective clothing. Wear protective boots if the situation requires.

Respiratory protection: Always use an approved respirator when vapor/aerosols exceed permissible exposure limits. Where risk assessment shows air-purifying respirators are appropriate use a half-mask respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls: Do not empty into drains.

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection







SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Clear, colorless liquid

pH No data available **Freezing/Melting Point** -75 °C (-103 °F)

Initial Boiling Point 171 - 173.5 °C (340 - 344.3 °F) @ 760 mm Hg

Evaporation Rate 0.1 [n-BuOAc = 1]
Flammability (solid, gas) Not applicable

Flash Point 60 - 67 °C (140 - 153 °F), closed cup

Autoignition Temperature 230 - 245 °C (446 - 473 °F) **Decomposition Temperature** 124.7 °C / 256.46 °F (DSC)

 Lower Explosive Limit (LEL)
 1.1 - 1.3% (v)

 Upper Explosive Limit (UEL)
 10.6% (v) [literature]

 Vapor Pressure
 1.17 hPa @ 20 °C

 Vapor Density
 4 [Air = 1]

Specific Gravity 0.90 - 0.904 @ 20 °C Viscosity No data available

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9.2 Other Data

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

This material is stable under normal handling conditions and use.

10.2 Chemical Stability

This material is stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Effective Date: 02 January 2021

Supersedes: 09 February 2017

Avoid temperature extremes, hot surfaces, contact with incompatible materials.

Safety Data Sheet Glycol Ether EB



10.5 Incompatible materials

Strong acids, strong oxidizers

10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon, aldehydes, ketones, organic acids.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD₅₀, rat: 470 mg/kg

Acute inhalation toxicity LC₅₀, mouse: 450 ppm - 4 h

Acute dermal toxicity LD₅₀, rabbit: 220 mg/kg

Skin irritationCauses skin irritation.

Causes skill illitation

Eye irritationCauses serious eye irritation.

Sensitization

Did not cause allergic skin reactions in humans and guinea pigs.

Genotoxicity in vitro

No data available

Mutagenicity

No data available

Specific organ toxicity - single exposure

No data available

Specific organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Further information

2-Butoxyethanol (CAS #111-76-2): IARC Group 3 carcinogen - *Not classifiable as to its carcinogenicity to humans*. Not listed as a carcinogen by ACGIH, NTP or OSHA. In long-term animal studies with 2-butoxyethanol, small but statistically significant increases in tumors were observed in mice but not rats. The effects are not believed to be relevant to humans. In animals, hemolysis (red blood cell breakage) and secondary effects to the kidneys and liver have been reported. Human red blood cells have been shown to be significantly less sensitive to hemolysis than those of rodents and rabbits.

2-Butoxyethanol inhalation exposure in laboratory animals has been found to reduce body weight gain and food consumption in addition to hemolysis. After exposure was discontinued, these effects in animals disappeared. Adverse reproductive or birth effects were not reported in animals except when exposures were high enough to cause significant maternal toxicity.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Large spills or discharges of this material may be harmful to aquatic life.

Toxicity to fish: LC₅₀ - Oncorhynchus mykiss (Rainbow trout), 96 h: 1,474 mg/l, static test

Toxicity to aquatic invertebrates: EC₅₀ - Daphnia magna (water flea), 48 h: 1,550 mg/l

Toxicity to aquatic plants: EbC₅₀ - Pseudokirchneriella subcapitata (Green algae), 72 h: 1.84 mg/l

12.2 Persistence and degradability

This product is readily biodegradable.

12.3 Bioaccumulation potential

The bioaccumulation potential of this material is low.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance is not persistent, bioaccumulative and toxic (PBT) and not very persistent and very bioaccumulative (vPvB).

Effective Date: 02 January 2021

Supersedes: 09 February 2017

Safety Data Sheet

Glycol Ether EB



12.6 Other effects

Additional ecological information

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

RCRA F-Series: No listings above the reportable threshold (de minimis) RCRA U-Series: No listings above the reportable threshold (de minimis)

SECTION 14 – TRANSPORTATION INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

A flammable liquid with a flash point at or above 38 °C (100 °F) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation are impracticable.

May be reclassified as not regulated for transport in non-bulk packages having a maximum capacity less than or equal to 450 liters (119 gallons).

USA DOT (Ground Transportation) - Bulk

Proper Shipping Name Combustible liquid, n.o.s. (2-Butoxyethanol)

Hazard ClassComb liqUN/NANA1993Packing GroupIII

NEAREG Guide #128

Packaging Authorization Non-Bulk: 49 CFR 173.203; Bulk: 173.241

Packaging Exceptions 49 CFR 173.150

IMO/IMDG (Water Transportation)

Not regulated for transport (Consult IMO regulations before transporting ocean bulk.)

ICAO/IATA (Air Transportation)

Not regulated for transport

RID/ADR (Rail Transportation)

Not regulated for transport

SECTION 15 - REGULATORY INFORMATION

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

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

OSHA Process Safety Management Standard: This product is not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: This product is not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

Toxic Substance Control Act (TSCA) Inventory: All substances in this product are listed on the TSCA Inventory. This product is not subject to TSCA 12(b) Export Notification.

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b)) and 1310.4(f)(2)) and Chemical Code Number No listing

Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number: No listing

Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals: No listing

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories:

Combustible liquid Harmful if swallowed, inhaled and in contact with skin Causes skin irritation and serious eye irritation

SARA 313 Information: None of the components of the product exceed the threshold (de minimis) reporting levels of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: None of the components of the product exceed the threshold (de minimis) reporting levels of established by these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: None of the components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Safety Data Sheet Glycol Ether EB



Drum Label(s)

Page 6 of 8

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substance: Glycol Ethers - There is no RQ assigned to this broad class, although the class is a CERCLA hazardous substances. Refer to 50 Federal Register 13456 (April 4, 1985)

Clean Air Act (CAA)

This product does not contain Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain Class 1 Ozone depletors.

This product does not contain Class 2 Ozone depletors.

Clean Water Act (CWA)

This product is not included on the list of Hazardous Substances.

This product does not contain Priority Pollutants.

This product does not contain Toxic Pollutants.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

This product contains no chemical(s) known to the state of California to cause cancer birth defects or reproductive harm in concentrations that exceed the threshold (de minimis) reporting levels established under Proposition 65.

Other U.S. State Inventories

2-Butoxyethanol (CAS #111-76-2) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, MN, NJ, PA, RI, WI.

Canada

WHMIS Hazard Classification

Flammable liquid and vapor Causes skin irritation, respiratory irritation and serious eve irritation Harmful if swallowed Causes damage to organs through prolonged or repeated exposure

Toxic in contact with skin and if inhaled

Canadian National Pollutant Release Inventory (NPRI): None of the components of this material are listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 1 (slightly hazardous to water)

Global Chemical Inventory Lists

Country	Inventory Name	Listed
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (KECI)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}Yes - All components of this product comply with the inventory requirements administered by the governing country.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)



C = safety glasses & gloves

HMIS Hazard Rating Legend

0 = Minimal 1 = Slight 2 = Moderate

3 = Serious 4 = Severe

* = Chronic Health Hazard

NFPA Hazard Rating Legend

0 = Insignificant 1 = Slight 2 = Moderate

3 = High 4 = Extreme

National Fire Protection Association (NFPA)

Page 7 of 8



Abbreviation Key

CAS

ACGIH American Conference of Governmental Industrial Hygienists **ADR** Accord Dangereux Routier (European regulations concerning

the international transport of dangerous goods by road)

Chemical Abstract Services

 LD_{Lo} Lowest Lethal Dose

Millions of Particles Per Cubic Foot mppcf

NA North America

Effective Date: 02 January 2021 Supersedes: 09 February 2017



No - One or more components of this product are not on the inventory or are exempt from listing.

CFR COC DOT EC ₅₀ EMS EPA ErC ₅₀ ERG FDA GHS	Code of Federal Regulations Cleveland Open Cup Department of Transportation Half maximal effective concentration Emergency Response Procedures for Ships Carrying Environmental Protection Agency Reduction of Growth Rate Emergency Response Guide Book Food and Drug Administration Globally Harmonized System of Classification and Labelling of Chemicals (GHS)	NAERG NIOSH NTP OSHA PBT PEL PMCC ppm RCRA RID	North American Emergency Response Guide Book National Institute for Occupational Safety & Health National Toxicology Program Occupational Safety and Health Administration Persistent, Bioaccumulating and Toxic Permissible exposure limit Pensky-Martens Closed Cup Parts Per Million Resource Conservation and Recovery Act Dangerous Goods by Rail
HCS IARC IATA IC ₅₀ ICAO IDLH IMDG IMO LC ₅₀ LD ₅₀	Hazard Communication Standard International Agency for Research on Cancer International Air Transport Association Half Maximal Inhibitory Concentration International Civil Aviation Organization Immediately Dangerous to Life and Health International Maritime Dangerous Goods International Maritime Organization 50% Lethal Concentration 50% Lethal Dose	RQ TCC/Tag TLV TSCA TWA UN VOC vPvB WHMIS	Reportable Quantity Tagliabue Closed Cup Threshold Limit Value Toxic Substance Control Act Time-weighted Average United Nations Volatile Organic Compounds Very Persistent and Very Bioaccumulating Workplace Hazardous Materials Information System

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

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