

Safety Data Sheet

Version 1.1

Revision Date 03/24/2022

SDS Number 300000078644

Print Date 02/14/2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Poly-Flush

Product Use Description : General Flushing Solvent

Manufacturer/Importer/Distributor : Versum Materials US, LLC
8555 South River Parkway
Tempe, AZ 85284-2601
Exporter EIN No. 47-5632014
www.emdgroup.com/electronics

Telephone : 800 837 2724

Emergency telephone number (24h) : 1-800-424-9300
(+1) 703-741-5970 (CHEMTREC)

2. HAZARDS IDENTIFICATION

GHS classification

Flammable liquids - Category 4
Eye irritation - Category 2A

GHS label elements

Hazard pictograms/symbols



Signal Word: Warning

Hazard Statements:

H227:Combustible liquid
H319:Causes serious eye irritation.

Precautionary Statements:

Prevention : P210:Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Safety Data Sheet

Version 1.1
Revision Date 03/24/2022

SDS Number 300000078644
Print Date 02/14/2023

- P264:Wash hands thoroughly after handling.
P280a:Wear protective gloves and eye/face protection.
- Response : P305+P351+P338 :IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 :If eye irritation persists: Get medical advice/attention.
P370+P378 :In case of fire, use recommended extinguishing media for extinction.
- Storage : P403+P235:Store in a well-ventilated place. Keep cool.
- Disposal : P501:Disposal of contents/container to be specified in accordance with regulations.

Hazards not otherwise classified

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Methoxymethylethoxypropanol, 2-	34590-94-8	80% - 95 %
TRIPROPYLENE GLYCOL MONOMETHYL ETHER	25498-49-1	5% - 20 %

4. FIRST AID MEASURES

- General advice : Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact : Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
- Skin contact : Wash off immediately with plenty of water for at least 20 minutes.
- Ingestion : If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.
- Inhalation : If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.
- Most important symptoms/effects - acute and delayed : Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.Repeated and/or prolonged exposures may result in : Blood chemistry changes (such as methemoglobinemi a leading to cyanosis or loss of consciousness). Kidney disorders. Eye disease. Skin

Safety Data Sheet

Version 1.1

Revision Date 03/24/2022

SDS Number 300000078644

Print Date 02/14/2023

disorders and Allergies.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam.
Carbon dioxide (CO₂).
Dry chemical.
Dry sand.
Limestone powder.
- Specific hazards : Incomplete combustion may form carbon monoxide. Flash back possible over considerable distance. In the event of fire, cool tanks with water spray . Fire or intense heat may cause violent rupture of packages. Burning produces noxious and toxic fumes. May form explosive mixtures in air. Downwind personnel must be evacuated.
- Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, Protective Equipment, and Emergency Procedures : Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.
- Environmental precautions : Shut off or remove all ignition sources. Construct a dike to prevent spreading.
- Methods for cleaning up : Absorb with inert absorbent materials such as: Dry sand. Vermiculite. Activated charcoal. Approach suspected leak areas with caution. Call Emergency Response number for advice. Place in appropriate chemical waste container.
- Additional advice : If possible, stop flow of product.

7. HANDLING AND STORAGE

Handling

Use only in well-ventilated areas. Avoid contact with eyes. Avoid breathing vapors and/or aerosols. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. See "Flammable and Combustible Liquid Code" NFPA No. 30, National Fire Protection Association, Boston, MA. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Keep away from heat and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from oxidizers.

Technical measures/Precautions

Keep away from open flames, hot surfaces and sources of ignition.

Safety Data Sheet

Version 1.1
Revision Date 03/24/2022

SDS Number 300000078644
Print Date 02/14/2023

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide readily accessible eye wash stations and safety showers.
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment

- Respiratory protection : Wear appropriate respirator when ventilation is inadequate.
- Hand protection : Neoprene gloves.
Nitrile rubber.
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection : Chemical resistant goggles must be worn.
- Skin and body protection : Long sleeve shirts and trousers without cuffs.
- Environmental exposure controls : Shut off or remove all ignition sources.
- Special instructions for protection and hygiene : Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

Exposure limit(s)

Methoxymethylethoxypropanol, 2-	Recommended exposure limit (REL): NIOSH	100 ppm	600 mg/m ³
Methoxymethylethoxypropanol, 2-	Permissible exposure limit: OSHA Z1	100 ppm	600 mg/m ³
Methoxymethylethoxypropanol, 2-	Short Term Exposure Limit (STEL): NIOSH	150 ppm	900 mg/m ³
Methoxymethylethoxypropanol, 2-	Short Term Exposure Limit (STEL): ACGIH	150 ppm	-
Methoxymethylethoxypropanol, 2-	Time Weighted Average (TWA): ACGIH	100 ppm	-

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid. Colorless.
- Odor : No data available.

Safety Data Sheet

Version 1.1

Revision Date 03/24/2022

SDS Number 300000078644

Print Date 02/14/2023

Odor threshold	: No data available.
pH	: No data available.
Melting point/range	: No data available.
Boiling point/range	: 374 °F (190 °C)
Flash point	: 191 °F (88.5 °C) Pensky-Martens Closed Cup
Evaporation rate	: No data available.
Flammability (solid, gas)	: Not applicable.
Upper/lower explosion/flammability limit	: Not applicable.
Vapor pressure	: 0.30 mmHg
Water solubility	: No data available.
Relative vapor density	: Not applicable.
Relative density	: 0.95 (water = 1)
Partition coefficient: n-octanol/water [log Kow]	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: No data available.
Density	: No data available. : 59.307 lb/ft ³ (0.95 g/cm ³)

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal conditions.
Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Oxidizing agents. Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds.
Hazardous decomposition products	: Carbon monoxide. Carbon dioxide (CO ₂).

Safety Data Sheet

Version 1.1

Revision Date 03/24/2022

SDS Number 300000078644

Print Date 02/14/2023

Aldehydes
Flammable hydrocarbon fragments.

Possibility of hazardous Reactions/Reactivity : No data available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Likely routes of exposure

Effects on Eye : Causes eye irritation.

Effects on Skin : Mild skin irritation.

Inhalation Effects : Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Ingestion Effects : No data available.

Symptoms : Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat. Repeated and/or prolonged exposures may result in ;, Blood chemistry changes (such as methemoglobinemi a leading to cyanosis or loss of consciousness)., Kidney disorders., Eye disease., Skin disorders and Allergies.

Acute toxicity

Acute Oral Toxicity : No data is available on the product itself.

Acute Oral Toxicity - Components

Methoxymethylethoxypropanol, 2-	LD50 : 7,500 mg/kg	Species : Dog
Methoxymethylethoxypropanol, 2-	LD50 : 5,135 mg/kg	Species : Rat

Inhalation : No data is available on the product itself.

Acute Dermal Toxicity : No data is available on the product itself.

Acute Dermal Toxicity - Components

Methoxymethylethoxypropanol, 2-	LD50 : 9,500 mg/kg	Species : Rabbit
---------------------------------	--------------------	------------------

Skin corrosion/irritation : Mild skin irritation.

Serious eye damage/eye irritation : Moderate eye irritation.

Sensitization. : No data available.

Chronic toxicity or effects from long term exposures

Safety Data Sheet

Version 1.1
Revision Date 03/24/2022

SDS Number 300000078644
Print Date 02/14/2023

- Carcinogenicity : No data available.
- Reproductive toxicity : No data is available on the product itself.
- Germ cell mutagenicity : No data is available on the product itself.
- Specific target organ systemic toxicity (single exposure) : No data available.
- Specific target organ systemic toxicity (repeated exposure) : No data available.
- Aspiration hazard : No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Repeated and/or prolonged exposures may result in : Blood chemistry changes (such as methemoglobinemia leading to cyanosis or loss of consciousness), Kidney disorders., Eye disease., Skin disorders and Allergies.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

- Aquatic toxicity : No data is available on the product itself.
- Toxicity to fish - Components
Methoxymethylethoxypropanol, 2- LC50 (96 h) : > 1,000 mg/l Species : Fish
- Toxicity to daphnia - Components
Methoxymethylethoxypropanol, 2- EC 50 (48 h) : > 1,000 mg/l Species : Daphnia
- Toxicity to other organisms : No data available.

Persistence and degradability

- Biodegradability : No data is available on the product itself.
- Mobility : No data available.
- Bioaccumulation : No data is available on the product itself.

Safety Data Sheet

Version 1.1
Revision Date 03/24/2022

SDS Number 300000078644
Print Date 02/14/2023

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Contact supplier if guidance is required.

Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

UN/ID No. : NA1993

Proper shipping name : Combustible liquid, n.o.s., (Methoxymethylethoxypropanol, 2-)

Packing group : III

Marine Pollutant : No

*** NOTE: When packaged in a bulk quantity (>450 liters), this substance is classified as NA1993 Combustible Liquid for surface transportation within the United States. In smaller containers, the product is not regulated for transportation.

IATA

Not dangerous goods

IMDG

Not dangerous goods

TDG

Not dangerous goods

Further Information

The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact customer service.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Component(s):

None.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.

Safety Data Sheet

Version 1.1

Revision Date 03/24/2022

SDS Number 300000078644

Print Date 02/14/2023

EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification
Fire Hazard. Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level
None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)
This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

16. OTHER INFORMATION

HMIS Rating

Health : 2
Flammability : 2
Physical hazard : 0

Prepared by : Product Compliance Department

Telephone : 800 837 2724

Preparation Date : 02/14/2023