

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Poly-Flush

Version  
1.0

Revision Date:  
10/11/2024

SDS Number:  
70MDGM661391

Date of first issue:  
10/11/2024

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## SECTION 1. IDENTIFICATION

Product name : Poly-Flush

Product number : 661391

### Manufacturer or supplier's details

Company : 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 : 1-800-424-9300 CHEMTREC (USA) 1-703-741-5970  
CHEMTREC (International) 24 Hours/day; 7 Days/week

### Recommended use of the chemical and restrictions on use

Recommended use : General Flushing Solvent

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## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 4

### GHS label elements

Signal Word : Warning

Hazard Statements : H227 Combustible liquid.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P280 Wear protective gloves/ eye protection/ face protection.

**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Methoxymethylethoxypropanol, 2-	34590-94-8	>= 70 - < 90

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

If inhaled : fresh air.

In case of skin contact : Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact : rinse out with plenty of water.  
Remove contact lenses.

If swallowed : make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Most important symptoms and effects, both acute and delayed : We have no description of any toxic symptoms.

Notes to physician : No information available.

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water  
Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards during fire fighting : Combustible.

Vapors are heavier than air and may spread along floors.  
Forms explosive mixtures with air on intense heating.

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Development of hazardous combustion gases or vapours possible in the event of fire.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for fire-fighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Advice for non-emergency personnel:  
Do not breathe vapors, aerosols.  
Avoid substance contact.  
Ensure adequate ventilation.  
Keep away from heat and sources of ignition.  
Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:  
Protective equipment see section 8.  
If possible, stop flow of product.

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up : Observe possible material restrictions (see sections 7 and 10).  
Take up with liquid-absorbent material (e.g. Chemisorb®).  
Dispose of properly. Clean up affected area.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Advice on safe handling : Empty containers may contain residue which can be dangerous – do not pressurize, cut, weld, drill, grind and also do not expose such containers to heat, flame, sparks, or other ignition sources. Observe label precautions.

Conditions for safe storage : Store in original container.

Further information on storage conditions : Risks from decomposition products: see section 10 Keep containers tightly closed in a dry, cool and well-ventilated place.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methoxymethylethoxypropanol, 2-	34590-94-8	TWA	100 ppm 600 mg/m3	NIOSH REL
		ST	150 ppm 900 mg/m3	NIOSH REL
		TWA	100 ppm 600 mg/m3	OSHA Z-1
		TWA	100 ppm 600 mg/m3	OSHA P0
		STEL	150 ppm 900 mg/m3	OSHA P0
		TWA	50 ppm	ACGIH

**Engineering measures** : Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7

### Personal protective equipment

**Respiratory protection** : Respirator with filter for organic vapor  
Wear appropriate respirator when ventilation is inadequate.  
required when vapours/aerosols are generated.

Hand protection

**Remarks** : 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.

**Protective measures** : Wear suitable protective clothing, gloves and eye/face protection.

**Eye protection** : Safety glasses

**Body Protection** : Flame retardant protective clothing  
If there is any possibility of direct contact or exposure, wear chemical resistant protective clothing.

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Hygiene measures : Avoid contact with skin, eyes and clothing.  
Change contaminated clothing. Wash hands after working  
with substance.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point : No data available

Boiling point/boiling range : 374 °F / 190 °C

Flammability (solid, gas) : No data available

Decomposition temperature : No data available

Flash point : 88.5 °C  
Method: Pensky-Martens closed cup

Auto-ignition temperature : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : 0.4 hPa

Relative vapor density : No data available

Relative density : (water = 1) 0.95

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Density	:	0.95 g/cm <sup>3</sup>
Solubility(ies)	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Evaporation rate	:	No data available
Viscosity	:	No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	:	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	:	no information available
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds.
Hazardous decomposition products	:	in the event of fire: See section 5.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact

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## Acute toxicity

### **Product:**

Acute oral toxicity : Acute Toxicity Estimate (ATE): > 5,000 mg/kg  
Method: Calculation method

### **Components:**

#### **Methoxymethylethoxypropanol, 2-:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: (ECHA)

Acute inhalation toxicity : LC50 (Rat, male and female): 166 mg/l, 275 ppm  
Exposure time: 7 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit, male): 9,500 mg/kg  
Method: OECD Test Guideline 402  
Remarks: (ECHA)

## Skin corrosion/irritation

### **Product:**

No data available

### **Components:**

#### **Methoxymethylethoxypropanol, 2-:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No irritation  
Remarks : (ECHA)

## Serious eye damage/eye irritation

### **Product:**

No data available

### **Components:**

#### **Methoxymethylethoxypropanol, 2-:**

Species : Rabbit  
Result : slight irritation  
Method : Draize Test

## Respiratory or skin sensitization

### **Product:**

No data available

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## Components:

### Methoxymethylethoxypropanol, 2-:

Test Type : Patch test:  
Routes of exposure : Skin  
Species : Human  
Result : negative  
Remarks : (IUCLID)

## Germ cell mutagenicity

### Product:

No data available

### Components:

#### Methoxymethylethoxypropanol, 2-:

Genotoxicity in vitro : Test Type: Ames test  
Result: negative  
Remarks: (IUCLID)

Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
GLP: yes  
Remarks: (ECHA)

## Carcinogenicity

### Product:

No data available

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## Reproductive toxicity

### Product:

No data available

## STOT-single exposure

### Product:

No data available



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## STOT-repeated exposure

**Product:**

No data available

**Components:**

**Methoxymethylethoxypropanol, 2-:**

Species : Rabbit, male and female  
NOAEL : 2,850 mg/kg  
Method : OECD Test Guideline 411  
Remarks : (ECHA)

## Aspiration toxicity

**Product:**

No data available

## Further information

**Product:**

Remarks : Handle in accordance with good industrial hygiene and safety practice  
The product has not been tested. The information is derived from the properties of the individual components.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Components:**

**Methoxymethylethoxypropanol, 2-:**

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l  
Exposure time: 96 h  
Analytical monitoring: yes  
GLP: yes  
Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,919 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: (ECHA)

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 969 mg/l  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

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Remarks: (ECHA)

Toxicity to microorganisms : EC10 (Pseudomonas putida): 4,168 mg/l  
Exposure time: 18 h  
Remarks: (ECHA)

## Persistence and degradability

### Components:

#### **Methoxymethylethoxypropanol, 2-:**

Biodegradability : Inoculum: activated sludge  
Concentration: 79.5 mg/l  
Result: Readily biodegradable.  
Biodegradation: 96 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes  
Remarks: (ECHA)

Biochemical Oxygen Demand (BOD) : 650 mg/g  
Incubation time: 20 d  
Remarks: (External SDS)

## Bioaccumulative potential

### Components:

#### **Methoxymethylethoxypropanol, 2-:**

Partition coefficient: n-octanol/water : log Pow: 0.004 (77 °F / 25 °C)  
Method: OECD Test Guideline 107  
GLP: yes  
Remarks: Bioaccumulation is not expected.

## Mobility in soil

No data available

## Other adverse effects

### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No ecological testing was carried out on the preparation.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging : When discarding an empty container, the contaminated to the inside is removed completely and it discards according to your local regulations.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR Road

UN/ID/NA number : NA 1993  
Proper shipping name : Combustible liquid, n.o.s.  
(Methoxymethylethoxypropanol, 2-)  
Class : CBL  
Packing group : III  
Labels : NONE  
ERG Code : 128  
Marine pollutant : no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

Methoxymethylethoxypropanol, 2-

34590-94-8

#### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

#### The ingredients of this product are reported in the following inventories:

TSCA : All substance listed on the TSCA Active Inventory

DSL : This product contains one or several components that are not on the Canadian DSL nor NDSL.

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## SECTION 16. OTHER INFORMATION

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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