

**SECTION 1: Identification**

**1.1. Identification**

Product form : Mixture  
Trade name : POLY-G® 73-490

**1.2. Recommended use and restrictions on use**

Use of the substance/mixture : chemical intermediate for urethane polymer production

**1.3. Supplier**

Monument Chemical  
2450 Olin Road  
Brandenburg, KY 40108 - USA  
T (270)422-6860  
[sds@monumentchemical.com](mailto:sds@monumentchemical.com) - [www.monumentchemical.com](http://www.monumentchemical.com)

**1.4. Emergency telephone number**

Emergency number : 24 HR CHEMTREC: 1-800-424-9300 (International +1 703-741-5970); 24 HR Emergency Assistance: 1-270-422-6860

**SECTION 2: Hazard(s) identification**

**2.1. Classification of the substance or mixture**

**GHS US classification**

Not classified

**2.2. GHS Label elements, including precautionary statements**

According to the corresponding national regulations there is no labelling obligation for this product.

No additional information available

**2.4. Unknown acute toxicity (GHS US)**

Not applicable

**SECTION 3: Composition/Information on ingredients**

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Name	Product identifier	%
PROPOXYLATED SORBITOL	(CAS-No.) 52625-13-5	40 – 90
Polyether Diol	(CAS-No.) 25322-69-4	10 – 60

Full text of hazard classes and H-statements : see section 16

**SECTION 4: First-aid measures**

**4.1. Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.  
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.  
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.  
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

**4.2. Most important symptoms and effects (acute and delayed)**

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.  
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

**4.3. Immediate medical attention and special treatment, if necessary**

No additional information available

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

#### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials, Ignition sources. Keep container closed when not in use.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>POLY-G® 73-490</b>	
No additional information available	
<b>PROPOXYLATED SORBITOL (52625-13-5)</b>	
No additional information available	
<b>Polyether Diol (25322-69-4)</b>	
<b>USA - AIHA - Occupational Exposure Limits</b>	
WEEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (aerosol)

#### 8.2. Appropriate engineering controls

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### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

#### Respiratory protection:

Wear appropriate mask

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Pale yellow or light brown oily liquid.
Color	: light yellow
Odor	: mild
Odor threshold	: No data available
pH	: 7 – 9 (@ 25 Deg. C)
Melting point	: No data available
Freezing point	: < -25 °C
Boiling point	: No data available
Flash point	: > 300 °C CC-PM
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: < 0.1 mm Hg (@ 25 Deg. C)
Relative vapor density at 20 °C	: No data available
Relative density	: ~ 1.09
Specific gravity / density	: ~ 1.09 g/ml
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

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### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### PROPOXYLATED SORBITOL (52625-13-5)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

#### Polyether Diol (25322-69-4)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 2.34 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity)

Skin corrosion/irritation : Not classified  
pH: 7 – 9 (@ 25 Deg. C)  
Serious eye damage/irritation : Not classified  
pH: 7 – 9 (@ 25 Deg. C)  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified

#### PROPOXYLATED SORBITOL (52625-13-5)

NOAEL (animal/male, F0/P)	≥ 1000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)
NOAEL (animal/female, F0/P)	300 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified

#### PROPOXYLATED SORBITOL (52625-13-5)

NOAEL (oral,rat,90 days)	≥ 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
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#### Polyether Diol (25322-69-4)

NOAEL (subchronic,oral,animal/male,90 days)	443 mg/kg body weight Animal: cat, Animal sex: male
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Aspiration hazard : Not classified  
Viscosity, kinematic : No data available  
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.  
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

## SECTION 12: Ecological information

### 12.1. Toxicity

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<b>PROPOXYLATED SORBITOL (52625-13-5)</b>	
LC50 fish 1	> 1000 mg/l <i>Leuciscus idus</i>
EC50 <i>Daphnia</i> 1	> 1000 mg/l (Other, 48 h, <i>Acartia tonsa</i> , Static system, Salt water, Experimental value, GLP)
ErC50 (algae)	> 1000 mg/l (ISO 10253, 72 h, <i>Skeletonema costatum</i> , Static system, Salt water, Experimental value, GLP)
LOEC (chronic)	> 10 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC (chronic)	≥ 10 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
<b>Polyether Diol (25322-69-4)</b>	
LC50 fish 1	> 10000 mg/l Rainbow trout
EC50 <i>Daphnia</i> 1	> 109 mg/l Test organisms (species): <i>Daphnia magna</i>
LC50 fish 2	1700 mg/l Bluegill
EC50 <i>Daphnia</i> 2	> 100 mg/l Test organisms (species): <i>Daphnia magna</i>

### 12.2. Persistence and degradability

<b>POLY-G® 73-490</b>	
Persistence and degradability	Not established.
<b>PROPOXYLATED SORBITOL (52625-13-5)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>Polyether Diol (25322-69-4)</b>	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

<b>POLY-G® 73-490</b>	
Bioaccumulative potential	Not established.
<b>PROPOXYLATED SORBITOL (52625-13-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	-2.33 – 1.8 (Calculated, Other, 25 °C)
Bioaccumulative potential	Not bioaccumulative.
<b>Polyether Diol (25322-69-4)</b>	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

<b>PROPOXYLATED SORBITOL (52625-13-5)</b>	
Surface tension	56.19 mN/m (20 °C, 0.1 vol %, EU Method A.5: Surface tension)
Partition coefficient n-octanol/water (Log Koc)	< 1.25 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Highly mobile in soil.

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

### Transport by sea

Not regulated

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### Air transport

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### POLY-G® 73-490

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### PROPOXYLATED SORBITOL (52625-13-5)

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

#### Polyether Diol (25322-69-4)

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

### 15.2. International regulations

#### CANADA

#### PROPOXYLATED SORBITOL (52625-13-5)

Listed on the Canadian DSL (Domestic Substances List)

#### Polyether Diol (25322-69-4)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

#### PROPOXYLATED SORBITOL (52625-13-5)

Listed on the EU NLP (No Longer Polymers) inventory

#### Polyether Diol (25322-69-4)

Listed on the EU NLP (No Longer Polymers) inventory

#### National regulations

#### PROPOXYLATED SORBITOL (52625-13-5)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Polyether Diol (25322-69-4)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

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Other information : None.

SDS US (GHS HazCom 2012)

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