

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product form : Substance  
 Trade name : POLY-G® 55-28  
 Chemical name : Polyether Diol  
 CAS No : 9003-11-6  
 Formula : (C3H6O.C2H4O)x  
 Synonyms : Polyethylene-polypropylene glycol / Block polymer of polypropylene oxide and polyethylene oxide / Ethylene oxide/propylene oxide copolymer / Polyethyleneglycol-polypropyleneglycol / Merxapol 105 / .alpha.-Hydro-.omega.-hydroxy-poly(oxyethylene)/poly(oxypropylene)/poly(oxyethylene) block copolymer / Polyoxyethylene-polyoxypropylene copolymer / Poloxalene / Polyethylene/ polypropylene glycol copolymers / Oxirane, 2-methyl-, polymer with oxirane / Poly(ethylene propylene) glycol / MEROXAPOL 105 / Polymer of methyloxirane and oxirane / Pluronic 10R-5 / Poly(ethylenepropylene)glycol / PEG-10 Propylene glycol / Laprol 1502-2-70 / PEG/PPG-17/6 copolymer / Polyoxypropylene-polyoxyethylene glycol / Poloxamer 184 / PEG/PPG-1/2 COPOLYMER / Laprol-2502 / Polyethylene-polypropylene glycol / Block polymer of polypropylene oxide and polyethylene oxide / Ethylene oxide/propylene oxide copolymer / Polyethyleneglycol-polypropyleneglycol / Merxapol 105 / .alpha.-Hydro-.omega.-hydroxy-poly(oxyethylene)/poly(oxypropylene)/poly(oxyethylene) block copolymer / Polyoxyethylene-polyoxypropylene copolymer / Poloxalene / Polyethylene/ polypropylene glycol copolymers / Oxirane, 2-methyl-, polymer with oxirane / Poly(ethylene propylene) glycol / MEROXAPOL 105 / Polymer of methyloxirane and oxirane / Pluronic 10R-5 / Poly(ethylenepropylene)glycol / PEG-10 Propylene glycol / Laprol 1502-2-70 / PEG/PPG-17/6 copolymer / Polyoxypropylene-polyoxyethylene glycol / Poloxamer 184 / PEG/PPG-1/2 COPOLYMER / Laprol-2502,

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

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

**1.3. Details of the supplier of the safety data sheet**

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; 24 HR Emergency Assistance: 1-270-422-6860

**SECTION 2: Hazards identification**

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

Classification (GHS-US)  
 Not classified

**2.2. Label elements**

GHS-US labeling  
 No labeling applicable

**2.3. Other hazards**

No additional information available

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

Not applicable

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

**3.1. Substance**

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Name	Product identifier	%	Classification (GHS-US)
Polyether Diol (Main constituent)	(CAS No) 9003-11-6	99 - 100	Not classified

Full text of H-phrases: see section 16

### 3.2. Mixture

Not applicable

## 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 victim 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 persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. 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. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

- 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.

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### 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 : Ignition sources.  
Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Polyether Diol (9003-11-6)	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

- 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 : Colorless to pale yellow liquid.
- Color : Colourless to yellow
- Odor : mild
- Odor threshold : No data available
- pH : ~ 4.5 - 7.5 (@ 25 Deg. C) 10/6 Isopropanol/water
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : 210 - 254 °C (Open cup)
- Relative evaporation rate (butyl acetate=1) : No data available
- Flammability (solid, gas) : No data available
- Explosion limits : No data available
- Explosive properties : No data available
- Oxidizing properties : No data available
- Vapor pressure : < 1 mm Hg (@ 25 Deg. C)
- Relative density : 1 - 1.07
- Relative vapor density at 20 °C : No data available
- Solubility : Moderately soluble in water.
- Log Pow : No data available
- Log Kow : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Viscosity : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

#### 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 : Not classified

Polyether Diol (9003-11-6)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 200 mg/l (Exposure time: 4 h)

Skin corrosion/irritation : Not classified  
pH: ~ 4.5 - 7.5 (@ 25 Deg. C) 10/6 Isopropanol/water

Serious eye damage/irritation : Not classified  
pH: ~ 4.5 - 7.5 (@ 25 Deg. C) 10/6 Isopropanol/water

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Polyether Diol (9003-11-6)	
LC50 fish 1	> 100 mg/l

#### 12.2. Persistence and degradability

Polyether Diol (9003-11-6)	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

Polyether Diol (9003-11-6)	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

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Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste 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 for transport

#### Additional information

Other information : No supplementary information available.

#### ADR

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Polyether Diol (9003-11-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

##### Polyether Diol (9003-11-6)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### National regulations

##### Polyether Diol (9003-11-6)

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 Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

#### 15.3. US State regulations

### SECTION 16: Other information

Revision date : 04/10/2015

Other information : None.

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SDS US (GHS HazCom 2012)

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