### Polymeg 1000 POLYOL

Gen. Variant: SDS US GHS

Version 1.0

Revision Date 06/16/2015

Print Date 12/28/2018

SDS No.: BE9007

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Polymeg 1000 POLYOL

CAS Number:

25190-06-1

Chemical characterization

: Polyol

Chemical Name

Polytetramethylene ether glycol

Synonyms

This SDS covers Polymeg 650, 1000 & 2000

Identified uses

: Polymer production

Company

Lyondell Chemical Company

LyondellBasell Tower, Suite 300

1221 McKinney St.

P.O. Box 2583

Houston Texas 77252-2583

Telephone

: Customer Service 888 777-0232

**Product Safety** 

800 700-0946

Emergency telephone

: CHEMTREC USA 800-424-9300

LYONDELL 800-245-4532

E-mail address

product.safety@lyb.com

### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

### Label elements

Not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

### Other hazards

No additional information available.

### 3. Composition/information on ingredients

### Substances

### Ingredients

Chemical Name	CAS-No. EC-No.	<u>Weight %</u>	Component Type
Polytetramethylene ether glycol	25190-06-1	>= 99.0 %	А

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Key:

(A) Substance

### **SECTION 4. FIRST AID MEASURES**

First aid procedures

General advice

: Consult a physician/doctor if necessary.

Take proper precautions to ensure your own health and safety

before attempting rescue and providing first aid. Show this material safety data sheet to the doctor in

attendance.

If inhaled

: Not expected to present a significant inhalation hazard under

anticipated conditions of normal use.

In case of skin contact

: Thoroughly wash effected area with mild soap and water. If

irritation persist, seek medical attention.

Wash clothing before wearing again.

If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and

polymer.

Obtain emergency medical attention.

In case of eye contact

: Immediately flush the eyes with large amounts of clean lowpressure water for at least 15 minutes, occasionally lifting the upper and lower lids. If pain or irritation persists, promptly

obtain medical attention.

If swallowed

: If swallowed, give lukewarm water (pint/ 1/2 litre) and induce

vomiting if victim completely conscious/alert.

Obtain medical attention.

Notes to physician

Treatment

: Treat symptomatically.

Treatment of overexposure should be directed at the control of

symptoms and the clinical condition of the patient.

### **SECTION 5. FIRE-FIGHTING MEASURES**

### Flammable properties

Flash point

: ~ 356 - 475 °F (180 - 246 °C)

Method: DIN 51376

Autoignition temperature

: No Data Available.

Lower explosion limit

: Not Applicable.

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Upper explosion limit

: Not applicable.

Fire fighting

Suitable extinguishing media

: SMALL FIRE: Use dry chemical, CO2, water spray or regular foam. LARGE FIRE: Use water spray, water fog or regular

foam. Do not use straight streams.

Unsuitable extinguishing

media

Further information

: No additional information available.

Protective equipment and precautions for firefighters

Specific hazards during fire

fighting

: Decomposition hazard at elevated temperatures.

Heat/contamination can release extremely flammable vapors. When mixed with air and exposed to ignition source, vapors

can burn in open or explode if confined.

Move containers from fire area if it can be done without risk. Fight fire from maximum distance or use unmanned hose

holders or monitor nozzles.

Cool containers with flooding quantities of water until well after

fire is out.

Withdraw immediately in case of rising sound from venting

safety devices or discoloration of tank.

Always stay away from tanks engulfed in fire.

For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire

burn.

Special protective equipment

for fire-fighters

Wear positive pressure self-contained breathing apparatus

(SCBA).

Structural firefighter's protective clothing will only provide

limited protection.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Eliminate all sources of ignition.

Ensure adequate ventilation. Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak. Wear recommended personal protective equipment.

Environmental precautions : Prevent entry into waterways, sewers, basements or confined

areas.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

Methods for containment /

Methods for cleaning up

: Collect and contain as any solid.

Avoid contact with hot product - may cause burns. Slippery walking/spread granular cover or soak up.

For large molten spills, flush with copious amounts of cold

water to freeze material.

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Sweep/shovel into suitable disposal containers.

Use steam for final clean-up.

### SECTION 7. HANDLING AND STORAGE

### Handling

Advice on safe handling

: Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling with soap and water. This material is stabilized during normal handling to prevent degradation, and the potential formation of highly flammable tetrahydrofuran vapors.

Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

operating conditions are established and maintained. This material is loaded and bulk shipped at a minimum

temperature of 65 °C (150 °F).

Normal precautions should be maintained in handling hot liquids during the unloading of shipping and storage

containers.

During transfer of product, ground container and insure that all

conveying equipment is properly grounded.

Handle empty containers with care - residue can burn if

heated.

### Storage

Requirements for storage areas and containers

: Hygroscopic.

Keep container tightly closed and properly labeled. Monitor inhibitor (BHT) content to maintain appropriate

concentration.

Storage temperature for this material should generally be

maintained between 55-65 °C (130-150 °F).

Storage under nitrogen atmosphere is recommended to minimize possible formation of highly reactive peroxides.

Store away from strong oxidizers/strong acids.

Store only in well ventilated, easily accessible area, away from

heat/spark and open flame.

### 8. Exposure controls/personal protection

### **Control parameters**

### Ingredients with workplace control parameters

Consult local authorities for acceptable exposure limits.

### **Exposure controls**

### **Engineering measures**

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No special ventilation is recommended under anticipated conditions of normal use beyond that needed for normal comfort control.

At elevated temperatures, special ventilation may be required even if the flash point has not been exceeded.

### Personal protective equipment

Respiratory protection

: No occupational exposure limit(s) have been established for

this material or its components.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

: Wear chemical resistant gloves such as:

Rubber

Eye and face protection

: Safety glasses with side-shields

Skin and body protection

: Wear heat protective gloves and clothing if there is a potential

for contact with heated material.

Hygiene measures

: Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Use good personal hygiene practices.

Wash hands before eating, drinking, smoking, or using toilet

facilities.

Take off contaminated clothing and wash before reuse.

Material spilled on hard surface can be a serious

slipping/falling hazard.

Spread coarse, inert granular cover such as sand, on any

affected walking surface.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Physical state

: Solid.

liquid at 104 °F (40 °C)

Color

: White in solid form; clear, colorless in liquid form.

Odor

: No odor.

### Safety data

Flash point

: ~ 356 - 475 °F (180 - 246 °C)

Method: DIN 51376

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Lower explosion limit

: Not Applicable.

Upper explosion limit

: Not applicable.

Flammability (solid, gas)

: Not applicable

Oxidizing properties

: Not considered an oxidizing agent.

Autoignition temperature

: No Data Available.

Decomposition temperature

: not determined

pH

: Neutral.

Melting point/freezing point

: 7 - 95 °F (-14 - 35 °C)

Boiling point/boiling range

: (Decomposes).

Vapor pressure

: negligible

Density

: 0.96 - 0.99 g/cm3

at 104 °F (40 °C)

Water solubility

: Slight (.1 to Less Than 1 Percent).

Partition coefficient: n-

octanol/water

: No Data Available.

octarioi/water

Viscosity, dynamic

: 60 - 599 mPa.s

at 104 °F (40 °C)

Relative vapor density

: Very high.

Explosive properties

: Not explosive

Remarks - Other information

: Hygroscopic., Additional properties may be listed in Sections 2

and 5.

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity

: Will not occur.

Chemical stability

: Stable under recommended storage conditions.

Conditions to avoid

: High temperatures and severe oxidizing conditions.

Excess heat can release hazardous decomposition products.

Materials to avoid

Strong oxidizers such as hydrogen peroxide, nitric acid,



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sulphuric acid, etc.

Contact with acids can release very flammable

tetrahydrofuran.

Hazardous decomposition

products

: Decomposition can release very flammable tetrahydrofuran,

and oxides of carbon.

Thermal decomposition

: Thermal decomposition begins at approximately 150 °C / 300

°F, releasing tetrahydrofuran.

Hazardous reactions

: Not expected to occur.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

**Product Summary** 

: The below given information is based on the assessment of

the product including impurities.

Acute toxicity

Acute oral toxicity

: Based on acute toxicity values, not classified.

: LD50: > 5,000 mg/kg

Species: Rat

Acute inhalation toxicity

: no data available

Acute dermal toxicity

: no data available

Skin corrosion/irritation

: Not classified

May cause mild skin irritation

Serious eye damage/eye

irritation

: Not classified

May cause slight transient eye irritation.

Respiratory or skin

sensitization

: Respiratory sensitization

Not classified No study available.

: Skin sensitization Not classified No study available.

Chronic toxicity

Carcinogenicity

: Not classified

Not listed by IARC, NTP, OSHA or EPA.

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Germ cell mutagenicity

: Not classified

No study available.

Reproductive toxicity

Effects on fertility /

: Not classified

Effects on or via lactation

No study available.

Effects on Development

: Not classified

No study available.

Target Organ Systemic Toxicant - Single exposure

: Not classified, No study available.

Target Organ Systemic Toxicant - Repeated

exposure

: Not classified, no data available

Aspiration hazard

: Based on physico-chemical values or lack of human evidence,

not classified.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicology Assessment** 

Acute aquatic toxicity

: Not classified

No data available.

Chronic aquatic toxicity

: Not classified

No data available.

Toxicity to fish

1

Expected to be low acute toxicity to fish.

Toxicity to daphnia and other aquatic invertebrates

: Expected to be low acute toxicity to aquatic invertebrates.

Toxicity to algae

: Expected to be low acute toxicity to algae.

Toxicity to bacteria

: Expected to be low acute toxicity to microorganisms.

Toxicity to fish (Chronic

toxicity)

: Expected to be low chronic toxicity to fish.

Toxicity to daphnia and

: Expected to be low chronic toxicity to aquatic invertebrates.

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other aquatic invertebrates (Chronic toxicity)

Persistence and degradability

Biodegradability

: Expected to be biodegradable

Bioaccumulative potential

Bioaccumulation

: no data available

Mobility in soil

Distribution among environmental compartments

: Stability in water no data available

: Stability in soil no data available

Additional advice Environmental fate and pathways : No additional information available.

Results of PBT and vPvB assessment

Not applicable.

Other adverse effects

Additional ecological

information

: No additional information available.

**SECTION 13. DISPOSAL CONSIDERATIONS** 

Further information

: Contaminated product, soil, water, container residues and spill

cleanup materials may be hazardous wastes.

Comply with federal, state, or local regulations for disposal.

**SECTION 14. TRANSPORT INFORMATION** 

Not regulated for transport

**SECTION 15. REGULATORY INFORMATION** 

If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

SARA 302/304

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This product contains no known chemicals regulated under SARA 302/304.

### SARA 311/312

Based upon available information, this material is not classified as a health and/or physical hazard according to Section 311 & 312.

### **SARA 313**

This product contains no known chemicals regulated under SARA 313.

### **State Reporting**

This material is not known to contain a chemical substance known to the State of California to cause cancer, reproductive, or developmental toxicity under California Proposition 65. However, LyondellBasell has not tested for the presence of listed chemical substances.

This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

This product contains no known chemicals regulated by Pennsylvania's Right to Know Act.

### Other international regulations

### **Global Inventory Status**

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

\*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

### REACh status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that the chemical substance in this product has been pre-registered or, where required under REACh, registered, and that we have the intention to proceed with any required registration in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

Contact product.safety@lyb.com for additional global inventory information.



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### **SECTION 16. OTHER INFORMATION**

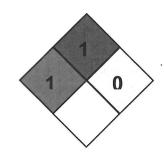
**Further information** 

HMIS Classification : Health Hazard: 1

Flammability: 1 Physical hazards: 0

NFPA Classification : Health Hazard: 1

Fire Hazard: 1 Instability: 0



### **Other Information**

HMIS rating scale (0 = minimal hazard; 4 = severe hazard) NFPA rating scale (0 = minimal hazard; 4 = severe hazard)

### Material safety datasheet sections which have been updated:

First Edition June 15 2015

#### Disclaimer

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### Disclaimer

Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices; (ii) applications involving permanent implantation into the body; (iii) life-sustaining medical applications; and (iv) lead, asbestos or MTBE related applications. All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

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