

## POLYGLYKOL 400

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Version : 2 - 18 / USA

Revision Date: 06/13/2014  
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**Section 01 - Product and company identification**

<b>Identification of the company:</b>	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
	<b>Information of the substance/preparation:</b> Product Safety 1-704-331-7710
	<b>Emergency tel. number:</b> +1 800-424-9300 CHEMTREC

<b>Trade name:</b>	<b>POLYGLYKOL 400</b>
<b>Material number:</b>	100316
<b>Synonyms:</b>	Product Has No Synonyms
<b>Primary product use:</b>	Techno-chemical industry. Pharma
<b>Chemical family:</b>	polyethylene glycol, HO-(CH <sub>2</sub> -CH <sub>2</sub> O) <sub>n</sub> -H, average molecular mass 400

**Section 02 - Hazards identification**

<b>Emergency overview:</b>	Clear, colorless liquid. No hazards known at this time. NO KNOWN PHYSICAL HAZARDS.		
<b>Expected Route of entry:</b>			
<b>Inhalation:</b>	Not expected to be irritating to the respiratory tract.		
<b>Skin contact:</b>	Not expected to be irritating to skin. Not expected to be toxic by skin absorption.		
<b>Eye contact:</b>	Not expected to be irritating to the eyes.		
<b>Ingestion:</b>	Not expected to be toxic.		
<b>Skin absorption:</b>	no		
<b>Known effects on other illnesses:</b>	No known effects on other illnesses for this product.		
<b>Listed carcinogen:</b>	IARC: No NTP: No OSHA: No Other: No		
<b>HMIS:</b>			
Health: 1	Flammability: 1	Reactivity: 0	Personal protection: I

**Section 03 - Composition/information on ingredients****Hazardous ingredients:**

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This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
None under Title III of SARA

**Section 04 - First aid measures****After inhalation:**

Move the victim to fresh air.  
Give oxygen or artificial respiration if needed.  
Get immediate medical advice/ attention.  
Never give anything by mouth to an unconscious person.

**After contact with skin:**

Immediately flush skin under running water for at least fifteen minutes. Seek medical attention if irritation or chemical burn is present.

**After contact with eyes:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get medical attention immediately if irritation develops and persists.

**After ingestion:**

If conscious, give the victim plenty of water to drink.  
Consult a physician.  
Never give anything by mouth to an unconscious person.

**Advice to doctor / Treatment:**

None known.

**Section 05 - Fire fighting measures**

**Flashpoint:** 464 °F  
Method: DIN 51376 (open cup)

**Lower explosion limit:** not applicable

**Upper explosion limit:** not applicable

**Self ignition:** not applicable

**Ignition temperature:** 680 °F  
Method: DIN 51794

**Hazardous combustion products:**

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

**Extinguishing media:** Water spray jet  
Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)

**Special fire fighting procedure:**

Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

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**Unusual fire and explosion hazards:** Burning produces noxious and toxic fumes.

**Section 06 - Accidental release measures**

**Steps to be taken in case of spill or leak:**

Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent, and place in a suitable container.

**Section 07 - Handling and storage**

**Advice on safe handling:**

Store in cool, dry area. Avoid excessive heat. Keep away from sources of heat, sparks or open flames.

**Further info on storage conditions:**

Store in original container.  
Keep container closed.  
Keep at temperature not exceeding 30 °C.  
Recommended storage temperature: 10 - 25 °C.

**Section 08 - Exposure controls / personal protection**

**Occupational exposure limits:**

Component	CAS number:	Regulatory list	Type of value	Values / Remarks
polyethylene glycols (MW > 200)	25322-68-3	US. WEEL - Workplace Environmental Exposure Levels	8-hr TWA	10 mg/m3

**Respiratory protection:** If airborne concentrations pose a health hazard, become irritating or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134

**Hand protection:** Butyl Rubber, PVC Or Neoprene.

**Eye protection:** Safety glasses

**Other protective equipment:** Protective clothing to minimize skin contact should be worn. Chemically resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eyewash stations should be provided in all areas where this material is handled.

**Advice on system design:** Local ventilation recommended - mechanical ventilation may be used.

**IDLH:**

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None

**Section 09 - Physical and chemical properties**

<b>Form:</b>	Liquid
<b>Color:</b>	colourless
<b>Odor:</b>	odourless
<b>Odor limit:</b>	not tested.
<b>pH:</b>	5 - 7 (20 °C, 100 g/l) Method: DIN 19261
<b>Solubility in water:</b>	(20 °C) miscible
<b>Soluble in ... :</b>	fat not tested.
<b>Density:</b>	approx. 1.126 g/cm <sup>3</sup> (20 °C) Method: DIN 51757
<b>Freezing point :</b>	39 - 46 °F Method: European Pharmacopoeia / 2.2.18
<b>pour point :</b>	approx. 42 °F Method: ASTM D 97
<b>Boiling point :</b>	> 392 °F Method: DIN EN 11890-2
<b>Vapor pressure:</b>	< 0.08 Torr (20 °C)
<b>Bulk density:</b>	not applicable
<b>Relative vapor density:</b>	not tested.
<b>Partitioning coef. octanol/water:</b>	not applicable
<b>Viscosity / (kinematic):</b>	ca. 97 - 110 mm <sup>2</sup> /s ( 20 °C) Method: DIN 51562

**Section 10 - Stability and reactivity**

<b>Thermal decomposition:</b>	360 °C Source: Analogy
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Hazardous Polymerization:</b>	Hazardous polymerisation does not occur.

**Section 11 - Toxicological information**

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**Product information:**

<b>Acute oral toxicity:</b>	LD50 > 15,000 mg/kg (rat)
<b>Acute inhalation toxicity:</b>	not tested.
<b>Acute dermal toxicity:</b>	not tested.
<b>Skin irritation:</b>	non-irritant (rabbit)
<b>Eye irritation:</b>	non-irritant (rabbit)
<b>Sensitization:</b>	non-sensitizing

**Other relevant toxicity information:**

By analogy with a product of similar composition

**Section 12 - Ecological information****Product information:**

<b>Biodegradation:</b>	> 80 % (28 d) Readily biodegradable. Method: OECD Test Guideline 301E
<b>Fish toxicity:</b>	LC50 > 10 g/l (48 h, <i>Leuciscus idus</i> (Golden orfe)) Method: DIN 38412 T.15
<b>Daphnia toxicity:</b>	not tested.
<b>Algae toxicity:</b>	not tested.
<b>Bacteria toxicity:</b>	EC0 > 12.5 g/l (3 h) Method: OECD Test Guideline 209
<b>Dissolved organic carbon (DOC):</b>	492 mg/g
<b>Chemical oxygen demand (COD):</b>	1,858 mg/g Method: DIN 38409-H-41

**Remarks:**

no data available

**Section 13 - Disposal considerations****Waste disposal information:**

Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

**RCRA hazardous waste:**

No -- Not as sold.  
RCRA number: NONE

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**Section 14 - Transport information**

DOT	not restricted
IATA	not restricted
IMDG	not restricted

**Section 15 - Regulatory information****TSCA Status:**

All components of this product are listed on the TSCA Inventory.

**SARA (section 311/312):**

Reactive hazard:	no
Pressure hazard:	no
Fire hazard:	no
Immediate/acute:	no
Delayed/chronic:	no

**SARA 313 information:**

This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

**Clean Water Act:**

Contains no known priority pollutants at concentrations greater than 0.1%.

**Volatile organic compounds VOC:**

Remarks: not available

**Section 16 - Other information****Other precautions:**

None known.

**Label information:**

ATTENTION!

UPON EVALUATION, IT HAS BEEN DETERMINED THAT THIS PRODUCT IS NOT SUBJECT TO THE LABELING REQUIREMENTS OF OSHA REGULATION 29CFR 1910.1200.

Good work practice required. Avoid contact with skin and eyes. Do not ingest. Wash thoroughly after handling.

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This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review

# MATERIAL SAFETY DATA SHEET



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these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.