

POLYGLYKOL P41/300

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SECTION 1. IDENTIFICATION

Identification of the company:

Clariant Corporation
500 East Morehead Street
Charlotte, NC, 28202
Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Stewardship, +1-704-331-7710
e-mail: SDS.NORAM@clariant.com

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name:**POLYGLYKOL P41/300****Material number:**

105326

CAS number:

58205-99-5

Synonyms:

Oxirane, Methyl-, Polymer With Oxirane, Ether With 2,2-Bis(Hydroxymethyl)-1,3-Propanediol (4:1)

Primary product use:

Lubricant component for metal-working fluids

Chemical family:

ethylene oxide - propylene oxide - copolymer (branched)

SECTION 2. HAZARDS IDENTIFICATION

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

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : ethylene oxide - propylene oxide - copolymer (branched)

CAS-No. : 58205-99-5

Components

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASURES

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- General advice : Remove/ Take off immediately all contaminated clothing.
- If inhaled : If irritation of nose or throat develops from exposure to fumes, move away from source of exposure and into fresh air. If irritation develops, get medical attention.
- In case of skin contact : Remove contaminated clothing without delay. Immediately wash the skin with soap and water for at least 15 minutes under a safety shower. If redness or skin irritation occurs, seek medical attention.
- In case of eye contact : Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.
- If swallowed : IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet
Foam
Dry powder
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)

Burning produces noxious and toxic fumes.
- Further information : Wear positive pressure self-contained breathing apparatus (SCBA) and full protective equipment.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : Wear suitable protective clothing. Wearing appropriate personal protective equipment, contain spill, ventilate area of spill or leak. Collect onto inert absorbent. Place in suitable container.
- Environmental precautions : Do not allow to enter drains or waterways
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Can be landfilled or incinerated, when in compliance with local regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Observe the general rules of industrial fire protection
- Advice on safe handling : Avoid contact with skin and eyes. Wash thoroughly after handling.
- Further information on storage conditions : Store in a cool, well-ventilated area. Keep container closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

- Engineering measures** : Local ventilation recommended - mechanical ventilation may be used.

Personal protective equipment

- 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
Remarks : Butyl Rubber, PVC Or Neoprene.
- Eye protection : Tightly fitting safety goggles
- Skin and body protection : 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

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areas where this material is handled.

Protective measures : Avoid contact with skin and eyes.

Hygiene measures : Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: yellow
Odour	: characteristic
pH	: 7 - 9.5 (68 °F / 20 °C) Concentration: 100 g/l Method: DIN 19268
Solidification point	: 14 °F / -10 °C Method: DIN 51583
Boiling point	: no data available
Flash point	: 518 °F / 270 °C Method: DIN 51376
Flammability (solid, gas)	: Not applicable
Upper explosion limit / upper flammability limit	: no data available
Lower explosion limit / Lower flammability limit	: no data available
Vapour pressure	: < 0.01 mbar (68 °F / 20 °C)
Relative vapour density	: no data available
Density	: 1.07 g/cm ³ (122 °F / 50 °C) Method: DIN 51757
Solubility(ies) Water solubility	: miscible (68 °F / 20 °C)
Partition coefficient: n-	: no data available

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octanol/water

Auto-ignition temperature : 590 °F / 310 °C
Method: DIN 51794

Decomposition temperature : > 428 °F / > 220 °C

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : approx. 300 mm²/s (122 °F / 50 °C)
Method: DIN 51562

Molecular weight : approx. 5,240 g/mol

Metal corrosion rate : Not applicable

Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
Stable

Conditions to avoid : None known.

Incompatible materials : not known

Hazardous decomposition products : When handled and stored appropriately, no dangerous decomposition products are known

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

None known.

Acute toxicity**Product:**

Acute oral toxicity : LD50 (Rat): > 15,000 mg/kg

Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : Remarks: not tested.

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Skin corrosion/irritation**Product:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Serious eye damage/eye irritation**Product:**

Species: rabbit eye
Result: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation**Product:**

Remarks: not tested.

Germ cell mutagenicity**Product:**

Germ cell mutagenicity - Assessment : No information available.

Carcinogenicity**Product:**

Carcinogenicity - Assessment : No information available.

IARC

No component 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 component 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:**

Reproductive toxicity - Assessment : No information available.

No information available.

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STOT - single exposure**Product:**

Remarks: not tested.

STOT - repeated exposure**Product:**

Remarks: not tested.

Repeated dose toxicity**Product:**

Remarks: not tested.

Experience with human exposure**Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): 8.5 g/l
Exposure time: 48 hToxicity to daphnia and other :
aquatic invertebrates Remarks: not tested.Toxicity to algae/aquatic :
plants Remarks: not tested.

Toxicity to microorganisms : Remarks: no data available

Persistence and degradability**Product:**Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 20 %
Method: OECD Test Guideline 302BBiodegradation: < 10 %
Method: OECD Test Guideline 301BChemical Oxygen Demand : 1,840 mg/g
(COD)

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Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: not tested.

Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: not tested.

Other adverse effects**Product:**

Environmental fate and pathways : Remarks: no data available

Additional ecological information : Harmful effects to fish and bacteria: not harmful

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**RCRA - Resource Conservation and Recovery Act Waste Code : No -- Not as sold.
: NONE

Waste from residues : Dispose of spilled or waste product, contaminated soil and other contaminated materials in licensed landfill or treatment facility in accordance with all local, state, and federal regulations.

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA not restricted

IMDG not restricted

SECTION 15. REGULATORY INFORMATION**CERCLA Reportable Quantity**

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

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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

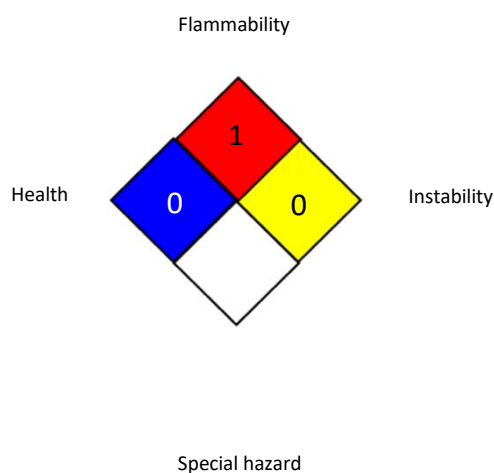
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards**SARA 313** : 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**

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

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION**Further information****NFPA 704:****Full text of other abbreviations**

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -

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Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Observe national and local legal requirements
None known.

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SAFETY DATA SHEET



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with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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