

POLYGLYKOL D21/300

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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 D21/300

Material number: 193535

CAS number: 9003-11-6

Primary product use: Metal processing

Chemical family: Ethylene oxide-propylene oxide copolymer

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

CAS-No. : 9003-11-6

Components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice : Remove/ Take off immediately all contaminated clothing.

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- If inhaled : 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.
- In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : Consult a physician.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : None known.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet
Foam
Dry powder
Carbon dioxide (CO₂)
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- Further information : Combustible material
In the event of fire and/or explosion do not breathe fumes.
During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion
Do not allow run-off from fire fighting to enter drains or water courses.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- 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

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
Ensure adequate ventilation.
Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent, and place in a suitable

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container.

Environmental precautions : Do not allow contact with soil, surface or ground water.
Prevent product from entering drains.

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 breathing vapours.
Avoid contact with skin, eyes and clothing.

Further information on storage conditions : Store in a cool, dry, well-ventilated area. Keep container sealed when not in use.

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

Contains no substances with occupational exposure limit values.

Engineering measures : Use engineering controls such as local or general exhaust to maintain airborne concentrations below exposure limits.

Personal protective equipment

Respiratory protection : not required under normal use
Use only in well-ventilated areas.

Hand protection
Remarks : butyl-rubber

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective equipment.

Protective measures : In line with Bulletin 38 Of DFG Senate Comm.(1/7/2002) polyethylene glycol (PEG mean mol. wt 200-600) has been assigned a max. work place concen. value of 1000mg/m³ with peak limit Category II (8)

Hygiene measures : Keep away from food and drink.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid
Colour	:	colourless
Odour	:	characteristic
pH	:	approx. 6 (68 °F / 20 °C) Concentration: 100 g/l Method: DIN 19268
Solidification point	:	< -36 °F / < -38 °C Method: ISO 3016
Boiling point	:	no data available
Flash point	:	approx. 482 °F / 250 °C Method: DIN 51376
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	Not applicable
Burning number	:	Not applicable
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	< 0.01 mbar (68 °F / 20 °C)
Relative vapour density	:	Not applicable
Density	:	approx. 1.07 g/cm ³ (68 °F / 20 °C) Method: DIN 51757
Bulk density	:	Not applicable
Solubility(ies)	:	

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Water solubility	:	soluble (68 °F / 20 °C)
Solubility in other solvents	:	not tested. Solvent: fat
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	approx. 689 °F / 365 °C Method: DIN 51794
Decomposition temperature	:	> 428 °F / > 220 °C
Viscosity	:	
Viscosity, kinematic	:	approx. 300 mm ² /s (122 °F / 50 °C) Method: DIN 51562
Oxidizing properties	:	Not applicable
Molecular weight	:	approx. 3,760 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.
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**Eye contact
Skin contact**Acute toxicity****Product:**

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Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : Remarks: not tested.

Skin corrosion/irritation**Product:**

Species: Rabbit

Result: No skin irritation

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

Species: rabbit eye

Result: No eye irritation

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.

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Reproductive toxicity**Product:**

Reproductive toxicity - Assessment : No information available.

No information available.

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 : LC50 (Danio rerio (zebra fish)): > 1,000 mg/l
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna Straus): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
Remarks: By analogy with a product of similar compositionToxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

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Remarks: By analogy with a product of similar composition

Toxicity to microorganisms : EC50: > 1,000 mg/l
Method: DIN 38412 T.8

Persistence and degradability**Product:**

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: 79 % (Carbon dioxide (CO₂))
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes
Remarks: By analogy with a product of similar composition
The 10 day time window criterion is fulfilled.

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 : no data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

RCRA - Resource Conservation and Recovery Authorization Act Waste Code : No -- Not as sold.
: NONE

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

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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.

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 material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

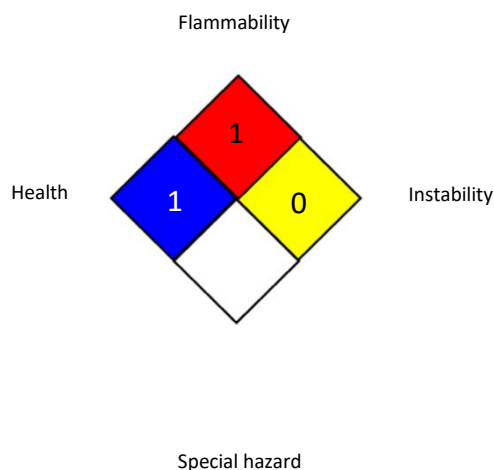
Contains no known priority pollutants at concentrations greater than 0.1%.

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**

AIIC - 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 - 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-

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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

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