

POLYGLYKOL B11/70

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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 B11/70

Material number: 121551

CAS number: 9038-95-3

Primary product use: Metal processing

Chemical family: ethylene oxide - propylene oxide - monobutyl ether

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 - monobutyl ether

CAS-No. : 9038-95-3

Components

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 4. FIRST AID MEASURES

General advice : Remove contaminated clothing and shoes.

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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 : Get medical attention immediately.
- 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)
- Further information : Wear full protective clothing and self-contained breathing apparatus.
- Special protective equipment for firefighters : Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
Contain spill. Ensure adequate ventilation and wear appropriate personal protective equipment. Collect onto inert absorbent. Place in sealable container. Do not allow to contaminate water sources or sewers.
- 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

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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.
Wash thoroughly after handling.
- Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place.

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 : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection
Remarks : Butyl Rubber, PVC Or Neoprene.
- Eye protection : Safety glasses with side-shields
- Skin and body protection : Wear suitable protective equipment.
- Protective measures : Do not inhale aerosol.
- Hygiene measures : Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	:	Liquid
Colour	:	light yellow
Odour	:	characteristic
Odour Threshold	:	not determined
pH	:	5 - 7 (68 °F / 20 °C) Concentration: 100 g/l Method: DIN 19268
Solidification point	:	-49 °F / -45 °C Method: DIN 51583
Boiling point	:	not determined
Flash point	:	482 °F / 250 °C Method: DIN 51376
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	not tested.
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Vapour pressure	:	< 0.1 mbar (68 °F / 20 °C)
Relative vapour density	:	no data available
Density	:	1.019 g/cm ³ (122 °F / 50 °C) Method: DIN 51757
Solubility(ies) Water solubility	:	soluble (68 °F / 20 °C)
Partition coefficient: n-octanol/water	:	not tested.
Auto-ignition temperature	:	572 °F / 300 °C Method: DIN 51794

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Decomposition temperature	:	> 428 °F / > 220 °C
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	70 mm ² /s (122 °F / 50 °C) Method: DIN 51562
Molecular weight	:	approx. 1,640 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**

Eye contact
Skin contact
Inhalation

Acute toxicity**Product:**

Acute oral toxicity	:	LD50 (Rat): 2,500 mg/kg
Acute inhalation toxicity	:	Remarks: not tested.
Acute dermal toxicity	:	Remarks: not tested.

Skin corrosion/irritation**Product:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404

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Result : No skin irritation

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

Species : rabbit eye
Result : slight irritant effect - does not require labelling
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.

STOT - single exposure**Product:**

Remarks : not tested.

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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).

Further information**Product:**

Remarks : Frequent and prolonged contact can lead to skin irritation

Remarks : Examinations of test animals (rats) with products of similar molecular weights show that repeated exposure with higher exposure concentrations of respirable aerosols a lung damage potential is available.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): 12.5 g/l
Exposure time: 48 hToxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates : End point: Immobilization
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yesToxicity to algae/aquatic : ErC50: > 100 mg/l
plants : Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : Remarks: no data available

Persistence and degradability**Product:**Biodegradability : Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.

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Biodegradation: 83 % (Carbon dioxide (CO₂))
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes
Remarks: By analogy with a product of similar composition

Chemical Oxygen Demand (COD) : approx. 1,970 mg/g

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 : This product, if discarded as sold, is not a Federal RCRA hazardous waste.
: NONE

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

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

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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 Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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

This product does not contain any priority pollutants related to the U.S. Clean Water Act

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.

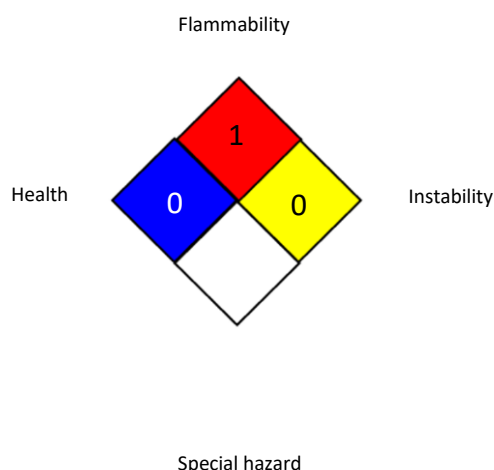
SECTION 16. OTHER INFORMATION**Further information**

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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; EmS - 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

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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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