

## Polyglykol B11/100/200kg Steel Drum, b

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Revision Date: 12/21/2022

Version : 4 - 4 / USA

Date of printing :04/03/2023

## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Corporation 500 East Morehead Street Charlotte, NC, 28202 Telephone No.: +1 704 331 7000
	<b>Information of the substance/preparation:</b> Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com
	<b>Emergency tel. number:</b> +1 800-424-9300 CHEMTREC

<b>Trade name:</b>	<b>Polyglykol B11/100/200kg Steel Drum, b</b>
<b>Material number:</b>	107934
<b>CAS number:</b>	9038-95-3
<b>Primary product use:</b>	Cooling and lubricating agent for metal working
<b>Chemical family:</b>	ethylene oxide - propylene oxide mono butyl ether

## SECTION 2. HAZARDS IDENTIFICATION

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

Acute toxicity (Inhalation) : Category 4

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H332 Harmful if inhaled.

Precautionary statements :

**Prevention:**

P261 Avoid breathing mist or vapours.

P271 Use only outdoors or in a well-ventilated area.

**Response:**

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance  
Substance name : ethylene oxide - propylene oxide mono butyl ether  
CAS-No. : 9038-95-3

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Oxirane, methyl-, polymer with oxirane, monobutyl ether (MW >1600- ≤ 3000 g/mol)	9038-95-3	>= 90 - <= 100

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice : Remove contaminated clothing and shoes.

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

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 : None known.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet

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- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)
- Further information : In the event of fire and/or explosion do not breathe fumes. 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 : Self-contained breathing apparatus

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment. Wear proper protective equipment. Contain spill. Spills should be collected as a liquid or absorbed on suitable absorbant and placed in proper containers for disposal. Do not discharge into storm drains or the aquatic environment.
- 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 : Keep container closed when not in use. Avoid contact with skin and eyes. Use with adequate ventilation or appropriate respiratory protection.
- Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

**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.

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**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 vapours Do not inhale aerosol. Avoid contact with skin and eyes.
Hygiene measures	:	Keep away from food and drink.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	Liquid
Colour	:	colourless to slightly yellow
Odour	:	characteristic
pH	:	5 - 7 (68 °F / 20 °C) Concentration: 100 g/l Method: DIN 19268
Solidification point	:	< -49 °F / < -45 °C Method: ISO 3016
Boiling point	:	not determined
Flash point	:	482 °F / 250 °C  Method: DIN 51376
Flammability (solid, gas)	:	Not applicable

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Self-ignition	:	The substance or mixture is not classified as self heating.
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	:	1.018 g/cm <sup>3</sup> (122 °F / 50 °C) Method: DIN 51757  1.040 g/cm <sup>3</sup> (68 °F / 20 °C) Method: DIN 51757
Solubility(ies) Water solubility	:	soluble (68 °F / 20 °C)
Partition coefficient: n-octanol/water	:	log Pow: < -1
Auto-ignition temperature	:	689 °F / 365 °C Method: DIN 51794
Decomposition temperature	:	> 662 °F / > 350 °C Heating rate: 376.15 K/min Method: DSC
Viscosity Viscosity, kinematic	:	100 mm <sup>2</sup> /s (122 °F / 50 °C) Method: DIN 51562
Molecular weight	:	approx. 1,890 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.  hygroscopic
Conditions to avoid	:	None known.

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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  
Ingestion

**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): 2,500 mg/kg

Acute inhalation toxicity : LC50: > 1 - 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : Remarks: no data available

**Components:****Oxirane, methyl-, polymer with oxirane, monobutyl ether (MW >1600- ≤ 3000 g/mol):**

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

**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 : no data available

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**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.

**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.

**OSHA  
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.

**NTP****Reproductive toxicity****Product:**

Reproductive toxicity - Assessment : No information available.  
No information available.

**STOT - single exposure****Product:**

Remarks : no data available

**STOT - repeated exposure****Product:**

Remarks : no data available

**Repeated dose toxicity****Product:**

Remarks : no data available

**Aspiration toxicity****Product:**

no data available

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**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.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish : LC0: 12.5 g/l  
Exposure time: 48 h  
Method: DIN 38412 T.15

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50: > 100 mg/l  
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.  
Biodegradation: 83 % (Carbon dioxide (CO<sub>2</sub>))  
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. 1,980 mg/g



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**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: no data available

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: no data available

**Other adverse effects****Product:**

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

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

RCRA - Resource Conservation and Recovery Act : This product, if discarded as sold, is not a Federal RCRA hazardous waste.

Waste Code : None

Waste from residues : Consult local, state, and federal regulations.

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

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**SECTION 14. TRANSPORT INFORMATION**

DOT not restricted

IATA not restricted

IMDG not restricted

**Further information:**

In aerosol form, the product can be toxic by inhalation.

However, the generation of a mist/aerosol is not likely in the event of leakage of primary containment for this product during transport operations.

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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.

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**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** : Acute toxicity (any route of exposure)

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

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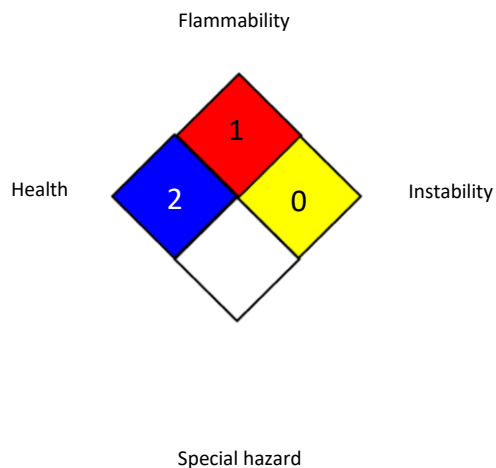
**SECTION 16. OTHER INFORMATION****Further information**

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**NFPA 704:****Full text of other abbreviations**

AICC - 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-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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