

POLYGLYKOL B11/150 K

Page 1(13)

Substance key: SXR024157

Revision Date: 01.03.2024

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

POLYGLYKOL B11/150 K

Material number: 121552

Chemical nature: Ethylene / propylene oxide mono butyl ether

CAS number : 9038-95-3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Industry sector : Metal Working Industry

Type of use: Metal processing

Lubricant

1.3. Details of the supplier of the safety data sheet

Identification of the company

Clariant Produkte (Deutschland) GmbH

65926 Frankfurt am Main

Telephone no. : +49 69 305 18000

Information about the substance/mixture

BU Care Chemicals

Product Stewardship

e-mail: SDS.Europe@clariant.com

1.4. Emergency telephone number

00800-5121 5121 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4

H332: Harmful if inhaled.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H332 Harmful if inhaled.

POLYGLYKOL B11/150 K

Page 2(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

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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.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Ethylene / propylene oxide mono butyl ether

CAS-No. : 9038-95-3

Components

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Remove contaminated clothing and shoes.

If inhaled : If inhaled, remove to fresh air.
Get medical advice/ attention.

POLYGLYKOL B11/150 K

Page 3(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

Version : 4 - 13 / EU

Date of printing : 06.05.2024

- In case of skin contact : IF ON SKIN: Wash with plenty of soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known currently.
- Risks : No hazards known at this time.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray jet
Foam
Dry powder
Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)

5.3 Advice for firefighters

- Special protective equipment for firefighters : Self-contained breathing apparatus
- Further information : Wear suitable protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Wear suitable protective equipment.

6.2 Environmental precautions

- Environmental precautions : Do not allow to enter drains or waterways

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

POLYGLYKOL B11/150 K

Page 4(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

Version : 4 - 13 / EU

Date of printing : 06.05.2024

Can be landfilled or incinerated, when in compliance with local regulations.

6.4 Reference to other sections

Information regarding Safe handling, see chapter 7., For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special measures necessary if stored and handled as prescribed.

Use only in area provided with appropriate exhaust ventilation.

Avoid formation of aerosol.

Advice on protection against fire and explosion : Observe the general rules of industrial fire protection

Hygiene measures : Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

7.3 Specific end use(s)

Specific use(s) : No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Safety glasses

Hand protection

Break through time : 480 min

Glove thickness : 0,7 mm

Remarks : Long-term exposure Impervious butyl rubber gloves

Break through time : 30 min

Glove thickness : 0,4 mm

Remarks : For short-term exposure (splash protection): Nitrile rubber gloves.

POLYGLYKOL B11/150 K

Page 5(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

Version : 4 - 13 / EU

Date of printing : 06.05.2024

- Remarks : These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.
- Respiratory protection : Use only in well-ventilated areas.
In the case of vapour formation use a respirator with an approved filter.
Equipment should conform to EN 14387
If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time.
ABEK-P3-filter
- Protective measures : Do not inhale aerosol.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : light yellow
- Odour : characteristic
- Solidification point : approx. -45 °C
Method: DIN 51583
- Boiling point : not determined
- Flammability : Not applicable
- Upper explosion limit / upper flammability limit : not tested.
- Lower explosion limit / Lower flammability limit : not tested.
- Flash point : approx. 250 °C
Method: DIN 51376
- Auto-ignition temperature : approx. 375 °C
Method: DIN 51794

POLYGLYKOL B11/150 K

Page 6(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

Version : 4 - 13 / EU

Date of printing : 06.05.2024

Decomposition temperature : > 350 °C
Heating rate: 276,15 K/min
Method: DSC

pH : approx. 6 (20 °C)
Concentration: 100 g/l
Method: DIN 19268

Viscosity
Viscosity, dynamic : no data available

Viscosity, kinematic : approx. 150 mm²/s (50 °C)
Method: DIN 51562

Solubility(ies)
Water solubility : (20 °C)
miscible

Partition coefficient: n-
octanol/water : not tested.

Vapour pressure : < 0,1 mbar (20 °C)

Density : approx. 1,0 g/cm³ (50 °C)
Method: DIN 51757

Relative vapour density : no data available

9.2 Other information

Flammable solids
Burning rate : Not applicable

Self-ignition : not tested.

Metal corrosion rate : Not applicable

Evaporation rate : Not applicable

POLYGLYKOL B11/150 K

Page 7(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

Version : 4 - 13 / EU

Date of printing : 06.05.2024

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : not known

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): 10.000 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

POLYGLYKOL B11/150 K

Page 8(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

Version : 4 - 13 / EU

Date of printing : 06.05.2024

Serious eye damage/eye irritation

Product:

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

Respiratory or skin sensitisation

Product:

Remarks : no data available

Germ cell mutagenicity

Product:

Germ cell mutagenicity-
Assessment : No information available.

Carcinogenicity

Product:

Carcinogenicity -
Assessment : No information available.

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

POLYGLYKOL B11/150 K

Page 9(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

Version : 4 - 13 / EU

Date of printing : 06.05.2024

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : In animal test examination (rats) with products of similar molecular weights, lung tissue damage was observed after repeated exposure to respirable aerosols.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): 12,5 g/l
Exposure time: 48 d

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
Remarks: By analogy with a product of similar composition

Toxicity to algae/aquatic plants : ErC50 : > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition

Toxicity to microorganisms :
Remarks: no data available

12.2 Persistence and degradability

Product:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: 83 %
Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

POLYGLYKOL B11/150 K

Page 10(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

Version : 4 - 13 / EU

Date of printing : 06.05.2024

Chemical Oxygen Demand (COD) : approx. 1.980 mg/g

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with regulations for special waste, must be taken to an authorised special waste incineration plant.

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

POLYGLYKOL B11/150 K

Page 11(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

Version : 4 - 13 / EU

Date of printing : 06.05.2024

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR	not restricted
ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	:	Neither banned nor restricted
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.		Not applicable

POLYGLYKOL B11/150 K

Page 12(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

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Date of printing : 06.05.2024

Other regulations:

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2 Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express

POLYGLYKOL B11/150 K

Page 13(13)

Substance key: SXR024157

Revision Date: 01.03.2024

Date of last issue: 17.08.2022

Version : 4 - 13 / EU

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