



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

TRIETHYLENE GLYCOL

CAS-No.: 112-27-6 MSDS

SECTION 1: Identification of the substance/mixture

1.1.

Product identifier: **TRIETHYLENE GLYCOL**

EC-No. : 203-953-2

CAS-No. : 112-27-6

Chemical structure

Synonyms : : Triglycol

1.2.

: Substance:

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

1.2.1.

Relevant identified uses

Use of the substance/mixture

1.2.2.

Uses advised against

No additional information available

SECTION 2: Hazards identification

2.1.

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye

irritation, Category 2

Skin corrosion/irritation,

Category 2

Specific target organ

toxicity — Single

exposure, Category 3,

Respiratory tract irritation

H319

H315

H335

Full text of hazard classes and H-statements : see section 16

Xi; R36/37/38

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2.

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display Extra classification(s) to display

Hazard pictograms (CLP)

Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

2.3.

Other hazards

:

GHS07

: Warning

: H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

: P261 - Avoid breathing vapours, dust, fume, gas.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

No additional information available

SECTION 3: Composition/information on ingredients

3.1.

Substances

Name

CAS-No.

EC-No.

: TRIETHYLENE GLYCOL FOR SYNTHESIS

: 112-27-6

: 203-953-2

Full text of R- and H-statements: see section 16

3.2.

Mixtures

Not applicable

SECTION 4: First aid measures

4.1.

Description of first aid measures

First-aid measures after inhalation

First-aid measures after skin contact

: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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: Wash with plenty of water/.... Wash contaminated clothing before reuse. Get medical advice/attention.

First-aid measures after eye contact

First-aid measures after ingestion

4.2.

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

: Rinse mouth. Do not induce vomiting. Get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation

Symptoms/effects after skin contact

Symptoms/effects after eye contact

4.3.

: May cause respiratory irritation.

: Causes skin irritation.

: Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1.

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

5.2.

: Carbon dioxide. Dry powder. Foam. Water spray.

: Do not use extinguishing media containing water.

Special hazards arising from the substance or mixture

No additional information available

5.3.

Advice for firefighters

Protection during firefighting

SECTION 6: Accidental release measures

: Do not enter fire area without proper protective equipment, including respiratory protection.

6.1.

Personal precautions, protective equipment and emergency procedures

6.1.1.

For non-emergency personnel

Emergency procedures

6.1.2.



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For emergency responders

Protective equipment

6.2.

Environmental precautions

: Evacuate unnecessary personnel.

: Use personal protective equipment as required.

Avoid release to the environment.


6.3.

Methods and material for containment and cleaning up

Methods for cleaning up

6.4.

Reference to other sections

: On land, sweep or shovel into suitable containers.  Collect spillage.

No additional information available

SECTION 7: Handling and storage

7.1.

Precautions for safe handling

Precautions for safe handling

Hygiene measures

7.2.

: Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours.

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage conditions

7.3.

Specific end use(s)

: Keep container tightly closed. Store in a well-ventilated place.

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear Colorless.

Odour : No data available

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -7 °C

Freezing point : No data available

Boiling point : 125 - 127 °C

Flash point : 166 °C

Auto-ignition temperature : 371 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : < 1 hPa at 20°C

Relative vapour density at 20 °C : 5.18

Relative density : No data available

Density : 1.124 g/cm³

Solubility : Water: Completely soluble

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Explosive properties

Oxidising properties

Explosive limits

9.2.

Other information

: No data available

: No data available

: 0.009 - 0.092 vol %

No additional information available

SECTION 10: Stability and reactivity

10.1.

Reactivity

No additional information available

10.2.

Chemical stability

Stable under normal conditions.

10.3.

Possibility of hazardous reactions

No additional information available

10.4.

Conditions to avoid

Direct sunlight. Heat.

10.5.

Incompatible materials

Oxidizing agent. Acids. Strong bases.

10.6.

Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1.

Information on toxicological effects

Acute toxicity

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

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Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard
: Not classified
: Causes skin irritation.
: Causes serious eye irritation.
: Not classified
: Not classified
: Not classified
: Not classified
: May cause respiratory irritation.
: Not classified
: Not classified



SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

UN-No. (ADN) : Not applicable

UN-No. (RID) : Not applicable

14.2. UN proper shipping name

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Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

TRIETHYLENE GLYCOL FOR SYNTHESIS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

IATA

Transport hazard class(es) (IATA)

ADN

Transport hazard class(es) (ADN)

RID

Transport hazard class(es) (RID)

14.4.

Packing group

: Not applicable

: Not applicable

: Not applicable

Packing group (ADR)

Packing group (IMDG)

Packing group (IATA)

Packing group (ADN)

Packing group (RID)

14.5.

Environmental hazards

: Not applicable

: Not applicable

: Not applicable

: Not applicable

: Not applicable

Dangerous for the environment

Marine pollutant

Other information

14.6.

Special precautions for user

: No

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: No

: No supplementary information available- Overland transport

No data available- Transport by sea

No data available- Air transport

No data available- Inland waterway transport

No data available- Rail transport

No data available

14.7.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1.

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

TRIETHYLENE GLYCOL FOR SYNTHESIS is not on the REACH Candidate List

TRIETHYLENE GLYCOL FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

Netherlands

: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen

: The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Ontwikkeling

Denmark

Recommendations Danish Regulation

15.2.

Chemical safety assessment

: The substance is not listed

: The substance is not listed

: The substance is not listed

: Young people below the age of 18 years are not allowed to use the product

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No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Eye Irrit. 2

Serious eye damage/eye irritation, Category 2

Skin Irrit. 2

STOT SE 3

H315

H319

H335

Skin corrosion/irritation, Category 2

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

R36/37/38

Xi

Irritating to eyes, respiratory system and skin

Irritant

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product