

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: TRIETHYLENE GLYCOL 90%

REACH registration notes: This product is not classified as hazardous, the information in this datasheet is given for guidance only.

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

Identified uses: Chemical Intermediate Industrial Solvent Plasticizer

Company name:

Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (EC 1272/2008):

Physical hazards: Not Classified

Health hazards: Not Classified

Environmental hazards: Not Classified

Label elements:

Hazard statements: Not Classified

Other hazards: This product does not contain any substances classified as PBT or vPvB.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures: TRIETHYLENE GLYCOL 90%
CAS number: 112-27-6
EC number: 203-953-2
REACH registration number: 01-2119438366-35-XXXX

Classification: Not Classified
Classification (67/548/EEC or 1999/45/EC): Not Classified

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments: The data shown are in accordance with the latest EC Directives.

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact: Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed:

Eye contact: May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed:

Notes for the doctor: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture:

Hazardous combustion products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Advice for firefighters:

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

[cont...]

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Personal precautions: Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

Environmental precautions:

Environmental precautions: Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

Methods and material for containment and cleaning up:

Methods for cleaning up: Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses.

Reference to other sections:

Reference to other sections: For personal protection, see Section 8. For waste disposal, see Section 13.

7. HANDLING AND STORAGE**Precautions for safe handling:**

Usage precautions: Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

Conditions for safe storage, including any incompatibilities:

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Specific end use(s):

Specific end use(s): The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters:**

Ingredient comments: No exposure limits known for ingredient(s).

Exposure controls:**Protective equipment:**

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Appropriate engineering controls: Provide adequate ventilation.

Eye/face protection: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Wear chemical splash goggles. EN 166.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. EN 374.

Other skin and body protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures: Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection: If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/145/143/149.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Liquid.
Colour:	Colourless.
Odour:	Mild.
Odour threshold:	No information available.
pH:	No information available.
Melting point:	No information available.
Initial boiling point and range:	No information available.
Flash point:	No information available.
Evaporation rate:	No information available.
Evaporation factor:	No information available.
Flammability (solid, gas):	No information available.
Upper/lower flammability or explosive limits:	No information available.
Other flammability:	No information available.
Vapour pressure:	No information available.
Vapour density:	No information available.
Relative density:	~ 1.12 - 1.13
Bulk density:	No information available.
Solubility(ies):	No information available.
Partition coefficient:	No information available.
Auto-ignition temperature:	No information available.

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Decomposition Temperature:	No information available.
Viscosity:	No information available.
Explosive properties:	No information available.
Explosive under the influence of a flame:	No information available.
Oxidising properties:	No information available.
Other information:	No information available.
Refractive index:	No information available.
Particle size:	No information available.
Molecular weight:	No information available.
Volatility:	No information available.
Saturation concentration:	No information available.
Critical temperature:	No information available.
Volatile organic compound:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal ambient temperatures and when used as recommended.

Chemical stability: Stable at normal ambient temperatures.

Possibility of hazardous reactions: None known.

Conditions to avoid: Avoid excessive heat for prolonged periods of time.

Incompatible materials:

Materials to avoid: Strong acids. Strong alkalis. Strong oxidising agents.

Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity – oral:

Notes (oral LD₅₀): No information available.

Acute toxicity – dermal:

Notes (dermal LD₅₀): No information available.

Acute toxicity – inhalation:

Notes (inhalation LC₅₀): No information available.

Skin corrosion/irritation:

Animal data: No information available.

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Serious eye damage/irritation:**Serious eye damage/irritation:** No information available.**Respiratory sensitisation:****Respiratory sensitisation:** No information available.**Skin sensitisation:****Skin sensitisation:** No information available.**Germ cell mutagenicity:****Genotoxicity - in vitro:** No information available.**Carcinogenicity:****Carcinogenicity:** No information available.**Reproductive toxicity:****Reproductive toxicity – fertility:** No information available.**Specific target organ toxicity - single exposure:****STOT - single exposure:** No information available.**Specific target organ toxicity - repeated exposure:****STOT - repeated exposure:** No information available.**Aspiration hazard:****Aspiration hazard:** No information available.**Inhalation:**

Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion:

May cause discomfort if swallowed.

Skin contact:

Prolonged skin contact may cause temporary irritation.

Eye contact:

May cause temporary eye irritation.

Acute toxicity – oral:**Notes (oral LD₅₀):** LD₅₀ >2000 mg/kg, Oral, Rat**Acute toxicity – dermal:****Notes (dermal LD₅₀):** LD₅₀ >18016 mg/l, Dermal, Rabbit**Acute toxicity – inhalation:****Notes (inhalation LC₅₀):** LD₅₀ >5.2 mg/l, Inhalation, Rat**Skin corrosion/irritation:****Animal data:** No information available.

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Serious eye damage/irritation:**Serious eye damage/irritation:** No information available.**Respiratory sensitisation:****Respiratory sensitisation:** No information available.**Skin sensitisation:****Skin sensitisation:** No information available.**Germ cell mutagenicity:****Genotoxicity - in vitro:** No information available.**Carcinogenicity:****Carcinogenicity:** No information available.**Reproductive toxicity:****Reproductive toxicity – fertility:** No information available.**Specific target organ toxicity - single exposure:****STOT - single exposure:** No information available.**Specific target organ toxicity - repeated exposure:****STOT - repeated exposure:** No information available.**Aspiration hazard:****Aspiration hazard:** No information available.**Inhalation:**

Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion:

May cause discomfort if swallowed.

Skin contact:

Prolonged skin contact may cause temporary irritation.

Eye contact:

May cause temporary eye irritation.

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Toxicity:**Acute toxicity – fish:**

No information available.

Acute toxicity – fish:LC₅₀, 96 hours: >10000 mg/l, *Lepomis macrochirus* (Bluegill).**Acute toxicity – aquatic invertebrates:** EC₅₀, 48 hours: >10000 mg/l, *Daphnia magna*.**Persistence and degradability:****Persistence and degradability:** The product is expected to be biodegradable.

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Bioaccumulative potential:**Bioaccumulative potential:** Bioaccumulation is unlikely.**Partition coefficient:** -1.75**Mobility:** The product is soluble in water.**Results of PBT and vPvB assessment:****Results of PBT and vPvB assessment:** This substance is not classified as PBT or vPvB according to current EU criteria.**Other adverse effects:** None known.**13. DISPOSAL CONSIDERATIONS****Waste treatment methods:****General information:** Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.**Disposal methods:** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.**14. TRANSPORT INFORMATION****General:** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).**UN number:** Not applicable.**UN proper shipping name:** Not applicable.**Transport hazard class(es):** No transport warning sign required.**Packing group:** Not applicable.**Environmental hazards:****Environmentally hazardous substance/marine pollutant:** No.**Special precautions for user:** Not applicable.**Transport in bulk according to Annex II of MARPOL and the IBC Code:****Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

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15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture:****EU legislation:**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Chemical safety assessment:

Not applicable.

Note:

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION**Legal disclaimer:**

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.