

## SAFETY DATA SHEET

Triethylene Glycol 30%

Page 1  
Issued: 04/03/2019  
Revision No: 1

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

**Product identifiers:**

**Product name:** Triethylene Glycol 30%

**REACH No.:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**CAS-No.:** 112-27-6

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

**Identified uses:** Laboratory chemicals, Manufacture of substances.

**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](mailto:sales@nexchem.co.uk)

### 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:** Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**Label elements:** Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**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.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Mixtures:**

**Synonyms:** Triethylene glycol 30%, TEG 30%

**Formula:** C<sub>6</sub>H<sub>14</sub>O<sub>4</sub>

**Molecular weight:** 150.17 g/mol

**CAS-No.:** 112-27-6

**EC-No.:** 203-953-2

No components need to be disclosed according to the applicable regulations

## SAFETY DATA SHEET

Triethylene Glycol 30%

Issued: 04/03/2019

Page 2

### 4. FIRST AID MEASURES

#### Description of first aid measures:

<b>General advice:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>If inhaled:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In case of skin contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In case of eye contact:</b>	Flush eyes with water as a precaution.
<b>If swallowed:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** No data available.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media:

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** No data available

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** No data available

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

**Environmental precautions:** Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

### 7. HANDLING AND STORAGE

**Precautions for safe handling:** For precautions see section 2.2.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Hygroscopic.

**Specific end use(s):** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. [cont...]

## SAFETY DATA SHEET

Triethylene Glycol 30%

Issued: 04/03/2019

Page 3

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters:

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

#### Exposure controls:

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment:

**Eye/face protection:** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Do not let product enter drains.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties:

##### Appearance:

**Form:** Clear, viscous liquid

**Colour:** Colourless

**Odour:** No data available

**Odour Threshold:** No data available

**pH:** No data available

**Melting point/freezing point:** Melting point/range: -7 °C - lit.

**Initial boiling point and boiling range:** 125 - 127 °C at 0.1 hPa - lit.

**Flash point:** 166 °C - closed cup

**Evaporation rate:** No data available

**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits:** Upper explosion limit: 9.2 %(V) Lower explosion limit: 0.9 %(V)

**Vapour pressure:** < 1 hPa at 20 °C

**Vapour density:** 5.18 - (Air = 1.0)

**Relative density:** 1.124 g/cm<sup>3</sup> at 20 °C

**Water solubility:** Completely miscible

**Partition coefficient: n-octanol/water:** No data available

**Auto-ignition temperature:** 347 °C

[cont...]

## SAFETY DATA SHEET

Triethylene Glycol 30%

Issued: 04/03/2019

Page 4

<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Explosive properties:</b>	During processing, dust may form explosive mixture in air.
<b>Oxidizing properties:</b>	No data available
<b>Other safety information:</b>	
<b>Relative vapour density:</b>	5.18 - (Air = 1.0)

### 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	No data available
<b>Conditions to avoid:</b>	No data available
<b>Incompatible materials:</b>	Strong oxidizing agents, Acids and bases
<b>Hazardous decomposition products:</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides. Other decomposition products - No data available. In the event of fire: see section 5.

### 11. TOXICOLOGICAL INFORMATION

<b>Information on toxicological effects:</b>	
<b>Acute toxicity:</b>	LD50 Oral - Rat - 17,000 mg/kg
<b>Inhalation:</b>	Respiratory disorder LD50 Dermal - Rabbit - > 22,500 mg/kg
<b>Skin corrosion/irritation:</b>	
<b>Skin:</b>	Human
<b>Result:</b>	Mild skin irritation (Patch Test 24 Hrs.)
<b>Skin:</b>	Rabbit
<b>Result:</b>	Mild skin irritation - 24 h
<b>Serious eye damage/eye irritation:</b>	
<b>Eyes:</b>	Rabbit
<b>Result:</b>	Mild eye irritation
<b>Respiratory or skin sensitisation:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available

[cont...]

## SAFETY DATA SHEET

Triethylene Glycol 30%

Issued: 04/03/2019

Page 5

### Carcinogenicity:

**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.

### Reproductive toxicity:

**Reproductive toxicity:** Mouse - Oral

**Effects on Newborn:** Growth statistics (e.g. reduced weight gain).

**Reproductive toxicity:** Mouse - Oral

**Effects on Newborn:** Physical.

**Developmental Toxicity:** Rat - Oral

**Effects on Embryo or Foetus:** Fetotoxicity (except death, e.g., stunted foetus).

**Specific Developmental Abnormalities:** Musculoskeletal system.

**Specific target organ toxicity - single exposure:** No data available

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available.

**Additional Information:** RTECS: YE4550000

**Prolonged or repeated exposure can cause:** Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

### Toxicity:

**Toxicity to fish:** LC50 - Leuciscus idus (Golden orfe) - > 100 mg/l - 96 h

**Toxicity to daphnia and other aquatic invertebrates:** EC50 - Daphnia magna (Water flea) - 46,500 mg/l - 48 h

**Toxicity to algae Remarks:** No data available

### Persistence and degradability:

#### Biodegradability:

**Result:** > 70 % - Readily biodegradable.

**Bioaccumulative potential:** No bioaccumulation is to be expected (log Pow <= 4).

**Mobility in soil:** No data available

**Results of PBT and vPvB 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.

**Other adverse effects:** No data available

[cont...]

## SAFETY DATA SHEET

Triethylene Glycol 30%

Issued: 04/03/2019

Page 6

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:** Dispose of as unused product.

### 14. TRANSPORT INFORMATION

**UN number:**

**ADR/RID:** -

**IMDG:** -

**IATA:** -

**UN proper shipping name:**

**ADR/RID:** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

**Transport hazard class(es):**

**ADR/RID:** -

**IMDG:** -

**IATA:** -

**Packaging group:**

**ADR/RID:** -

**IMDG:** -

**IATA:** -

**Environmental hazards:**

**ADR/RID:** No

**IMDG Marine pollutant:** No

**IATA:** No

**Special precautions for user:** No data available

### 15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical safety assessment:** For this product a chemical safety assessment was not carried out.

**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. [cont...]

**SAFETY DATA SHEET**  
Triethylene Glycol 30%

Issued: 04/03/2019

Page 7

**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.