SAFETY DATA SHEET:
DIETHYLENE GLYCOL

1. IDENTIFICATION
1.1. Product identifier
Product form : Substance
Substance name : Diethylene Glycol
Synonyms : Diethylene Glycol IR Grade

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Raw material

2. HAZARDS IDENTIFICATION
Classification of the substance or mixture
GHS-US classification
AcuteTox.4(Oral) H302
STOT RE 2 H373

Label elements
GHS-US labelling
Hazard pictograms (GHS-US)
Signal word (GHS-US) Warning
Hazard Statements GHS-US) Harmful if swallowed
Precautionary statements
Do not breathe mist, vapours
Wash hands thoroughly after handling
Do not eat, drink or smoke when using this product
If swallowed: Call a doctor, a POISON CENTER if you feel unwell
Get medical advice/attention if you feel unwell
Rinse mouth
Dispose of contents/container to an approved waste disposal plant

Other hazards
No additional information available

Unknown acute toxicity (GHS US)
Not applicable
3. COMPOSITION

Substance

Name: Diethylene Glycol
Product Identifier: CAS # 111-46-6
Percentage: 99-100
GHS-US Classification: Acute Tox, 4 (oral) H3O2
STOT RE 2, H373

MIXTURE: not applicable

4. FIRST AID MEASURES

Description of first aid measures

First-aid measures general
Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation
Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact
Wash skin thoroughly with mild soap and water.

First-aid measures after eye contact
In case of contact, immediately flush eyes with plenty of water.

First-aid measures after ingestion
Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries:
May cause damage to organs through prolonged or repeated exposure.

Symptoms/injuries after ingestion:
Swallowing a small quantity of this material will result in serious health hazard.

Harmful if
swallowed.

Indication of any immediate medical attention and special treatment needed
All treatments should be based on observed signs and symptoms of distress in the patient.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Unsuitable extinguishing media:
Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard
No particular fire or explosion hazard. Burning produces irritating, toxic and noxious fumes.

Explosion hazard
Product is not explosive.

Reactivity
No dangerous reactions known.

Advice for firefighters

Firefighting instructions
Do not allow run-off from fire fighting to enter drains or water courses. Exercise caution when fighting any chemical fire.

Protection during firefighting
Do not enter fire area without proper protective equipment, including respiratory protection.

Wear a self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General measures
Avoid all eye and skin contact and do not breathe vapour and mist.
For non-emergency personnel
Protective equipment
Wear suitable gloves.

Emergency procedures
Evacuate unnecessary personnel.

For emergency responders
Protective equipment
Wear suitable gloves.

Emergency procedures
Stop leak if safe to do so. Ventilate area.

Environmental precautions
Avoid release to the environment.

Methods and material for containment and cleaning up
For containment
Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up
Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Reference to other sections
Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

7. HANDLING AND STORAGE
Precautions for safe handling

Precautions for safe handling: Avoid breathing mist, vapours
Hygiene measures: Do not eat, drink or smoke when using this product. 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 Containers: Do not store near food, foodstuffs, drugs, or potable water supplies
Incompatible products: Strong acids, strong bases, strong oxidizers
Storage area: Store in dry, cool, well ventilated area
Specific end uses (s): RAW MATERIAL

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION
CONTROL PARAMETERS
DIETHYLENE GLYCOL (111-46-6)

ACGIH NOT APPLICABLE
OSHA NOT APPLICABLE

EXPOSURE CONTROLS
Appropriate engineering controls: Avoid creating mist or spray. Either local exhaust or general room ventilation is usually required

Personal protective equipment: Avoid all unnecessary exposure
Hand Protection: Use rubber gloves
Eye Protection: In case of splashing or aerosol production wear
Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Use an approved respiratory equipped with oil/mist cartridges.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Colour: Colorless
Odour: odorless
Odour threshold: no data available
pH: No data available
Relative evaporation rate (butyl acetate=1): No data available
Melting / Freezing point: -6.5 °C
Boiling point: 244.9 °C
Flash point: 138 °C
Auto-ignition temperature: 229 °C
 Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: 0.002 mm Hg @ 20°C
Relative vapour density at 20 °C: No data available
Relative density: 1.118
Density: 1.18 g/cm³ @ 20 °C
Solubility: Soluble in water. Water: 100 %
Log Pow: -1.98
Viscosity: No data available
Viscosity, dynamic: 35.7 mPa.s @ 20 °C
Explosive limits: No data available

10. STABILITY AND REACTIVITY

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION
13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

16. OTHER INFORMATION

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