

SECTION 1: Identification

1.1 Product identifier

Trade name : SU 207-12T
Product form : Mixture
Product code : TBB-20712T101

1.2 Other means of identification

No additional information available

1.3 Recommended use of the chemical and restrictions on use

Recommended use : Thermal barrier polymer (Part B)

1.4 Details of manufacturer or importer

Supplier

Azon USA Inc.
2204 Ravine Rd
Kalamazoo Michigan 49004
USA
T 269-385-5942

Manufacturer

Azon Asia Inc.
168 Joongwon Ind Rd. Judeok
Chungju CB 27459 KOR
South Korea
T +82 (0) 43 840 0500

1.5. Emergency phone number

Emergency number : For 24/7 multilingual advice for spill, leak, fire, exposure, or accident call CHEMTREC at 0800 425 459 New Zealand, Toll-Free- Mobile Enabled +64 9-801 0034 (Auckland, New Zealand) and provide CCN 2198
Back-up Emergency Number: +65 3163 8374 (Singapore, multilingual) +1-703-527-3887 (United States, answered in English, request other languages)

SECTION 2: Hazard identification

2.1. Classification of the hazardous chemical

Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity – Repeated exposure, Category 2 H373

2.2. GHS Label elements, including precautionary statements

GHS NZ labelling

Hazard pictograms (GHS NZ)



Signal word (GHS NZ) : Warning
Contains : Diethylene glycol (5 – 15 %); Ethylene Glycol (2 – 5 %)
Hazard statements (GHS NZ) : H319 - Causes serious eye irritation
H373 - May cause damage to organs (kidneys, liver) through prolonged or repeated exposure (Inhalation)
Prevention : P260 - Do not breathe mist, spray, vapours.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
Response : P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.

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Disposal : P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
Diethylene Glycol-phthalic Anhydride Polymer	CAS-No.: 32472-85-8	10 – 20	Aquatic Chronic 3, H412
Diethylene glycol	CAS-No.: 111-46-6	5 – 15	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Ethylene Glycol	CAS-No.: 107-21-1	2 – 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 STOT RE 2, H373

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but, not mouth-to-mouth.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim is unconscious: Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin areas with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center or a doctor if you feel unwell.

4.2. Symptoms caused by exposure

Symptoms/effects after inhalation	: May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Causes eye irritation.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
Chronic symptoms	: Prolonged and frequent exposure through inhalation may cause cancer. May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).

4.3. Medical attention and special treatment

Other medical advice or treatment : IF exposed or concerned: Get medical advice/attention.

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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂), dry chemical powder, foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

- Fire hazard : No fire hazard.
General measures : Avoid all personal contact including breathing in the mist, spray, vapours. Do not take actions involving personal risks. Absorb spillage to prevent material damage. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.
Reactivity in case of fire : The product is non-reactive under normal conditions of use, storage and transport.
Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Nitrogen oxides.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Hazchem Code : * 3Z
EAC code : •3Z - •3Z

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid all personal contact including breathing in the mist, spray, vapours. Do not take actions involving personal risks. Absorb spillage to prevent material damage. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Evacuate the danger area. If possible without taking personal risks, Remove ignition sources. If outdoors, move to an area upwind of the danger area. Prevent other non-emergency personnel from entering the danger area. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so. Prevent runoff from entering drains, sewers or waterways.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

- For containment : Stop leak without risks if possible. Contain with non-combustible inert absorbent. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up : Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations. Notify authorities if product enters sewers or public waters.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe mist, spray, vapours. Avoid contact with skin, eyes and clothing.
- Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a cool, dry and well-ventilated area away from incompatible substances. Keep container tightly closed.
- Incompatible materials : Alkalis. Oxidizing agents.
- Packaging materials : Always store product in container of same material as original container.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

Diethylene glycol (111-46-6)

New Zealand - Occupational Exposure Limits

Local name	Diethylene glycol
WES-TWA (OEL TWA)	44 mg/m ³ ifv (Inhalable Fraction and Vapour)
	10 ppm ifv (Inhalable Fraction and Vapour)
WES-STEL (OEL STEL)	176 mg/m ³ ifv (Inhalable Fraction and Vapour)
	40 ppm ifv (Inhalable Fraction and Vapour)
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 15th Edition

Ethylene Glycol (107-21-1)

New Zealand - Occupational Exposure Limits

Local name	Ethylene glycol
WES-TWA (OEL TWA)	64 mg/m ³ (vapour) ifv (inhalable fraction and vapour)
	25 ppm (vapour) ifv (inhalable fraction and vapour)
WES-STEL (OEL STEL)	127 mg/m ³ (vapour) ifv (inhalable fraction and vapour)
	10 mg/m ³ (particulate)
	50 ppm (vapour) ifv (inhalable fraction and vapour)
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 15th Edition

Exposure limit values for the other components

No additional information available

8.2. Monitoring methods

No additional information available

8.3. Engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation, or process enclosure to keep the airborne concentrations below the permissible exposure limits. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment	: Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.
Hand protection	: Wear protective gloves. Protective gloves made of : Neoprene or nitrile rubber gloves, PVC or other plastic material or natural rubber gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of inadequate ventilation, wear respiratory protection. Self-contained breathing apparatus

Personal protective equipment symbol(s)



Environmental exposure controls	: Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.
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SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: Clear purple to black.
Odour	: Slight
Odour threshold	: No additional information available
pH	: No additional information available
Evaporation rate	: No additional information available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: No additional information available
Boiling point	: No data available
Flash point	: > 93.3 °C / > 199.9 °F
Auto-ignition temperature	: No data available
Flammability	: Not applicable
Vapour pressure	: No additional information available
Relative density	: No additional information available
Density	: Relative density: 1.072 – 1.078 @ 25 °C / 77 °F
Solubility	: Slightly soluble in: Water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, dynamic	: 565 – 665 @ 25 °C / 77 °F
Explosive properties	: No data available
Explosive limits	: No additional information available
Minimum ignition energy	: No data available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions of use.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Incompatible materials.
Incompatible materials	: Alkalis. Oxidizing agents.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Nitrogen oxides.

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SECTION 11: Toxicological information

11.1. Toxicity

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)

LD50 dermal rat	> 2000 mg/kg
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Diethylene glycol (111-46-6)

LD50 oral rat	12000 mg/kg
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LD50 oral	15600 mg/kg
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LD50 dermal rabbit	11890 mg/kg
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LD50 dermal	13300 mg/kg
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Ethylene Glycol (107-21-1)

LD50 oral rat	4700 mg/kg bodyweight
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LD50 oral	6140 mg/kg
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LD50 dermal rat	9530 mg/kg bodyweight
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LD50 dermal	> 3549 mg/kg
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Skin corrosion/irritation : Not classified

Ethylene Glycol (107-21-1)

Skin corrosion/irritation, rabbit	Not irritating to skin
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Serious eye damage/irritation : Causes serious eye irritation.

Diethylene glycol (111-46-6)

Serious eye damage/irritation, rabbit	Slightly irritating
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Ethylene Glycol (107-21-1)

Serious eye damage/irritation, rabbit	<40% Irritating to eyes (Fully reversible effects within 7 days of observation)
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Respiratory or skin sensitisation : Not classified

Ethylene Glycol (107-21-1)

Guinea pig maximization test	Not sensitive
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Skin sensitization, human	Not sensitive
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Germ cell mutagenicity : Not classified

Ethylene Glycol (107-21-1)

Germ cell mutagenicityDominant lethal test, rat	Negative
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Carcinogenicity : Not classified

Diethylene glycol (111-46-6)

NOAEL (chronic, oral, animal/male, 2 years)	1210 mg/kg bodyweight
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NOAEL (chronic, oral, animal/female, 2 years)	1160 mg/kg bodyweight
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Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs (kidneys, liver) through prolonged or repeated exposure (Inhalation).

Diethylene glycol (111-46-6)

LOAEL (oral, rat, 90 days)	40000 mg/kg bodyweight
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Ethylene Glycol (107-21-1)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard : Not classified

Ethylene Glycol (107-21-1)

Viscosity, kinematic	14.459 mm²/s
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SECTION 12: Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term : Not classified.

(acute)

Hazardous to the aquatic environment, long-term : Not classified.

(chronic)

Soil toxicity : Not classified

Terrestrial vertebrate toxicity : Not classified

Terrestrial invertebrate toxicity : Not classified

Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)

LC50 - Fish [1]	≥ 100 mg/l
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ErC50 algae	157.4 mg/l
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Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9
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LD50 dermal rat	> 2000 mg/kg
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Diethylene glycol (111-46-6)

LC50 - Fish [1]	75200 mg/l
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NOEC (chronic)	≥ 1000 mg/l
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Partition coefficient n-octanol/water (Log Pow)	-1.47
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LD50 dermal rabbit	11890 mg/kg
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LD50 oral rat	12000 mg/kg
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Ethylene Glycol (107-21-1)

LC50 - Fish [1]	> 72860 mg/l
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EC50 - Crustacea [1]	> 100 mg/l
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ErC50 algae	> 1000 mg/l
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NOEC (chronic)	≥ 1000 mg/l
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NOEC chronic fish	32000 mg/l 7 days
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NOEC chronic crustacea	24000 ml/l (48h)
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Partition coefficient n-octanol/water (Log Pow)	-0.337
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Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0
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LD50 dermal rat	9530 mg/kg bodyweight
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LD50 oral rat	4700 mg/kg bodyweight
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12.2. Persistence and degradability

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Persistence and degradability	Not established.
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Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)

Persistence and degradability	Not rapidly degradable
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Diethylene glycol (111-46-6)

Persistence and degradability	Not rapidly degradable
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Ethylene Glycol (107-21-1)

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No additional information available
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Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)

Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9
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Diethylene glycol (111-46-6)

Partition coefficient n-octanol/water (Log Pow)	-1.47
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Ethylene Glycol (107-21-1)

Partition coefficient n-octanol/water (Log Pow)	-0.337
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Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0
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Bioaccumulative potential	Does not bioaccumulate.
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12.4. Mobility in soil

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Mobility in soil	No additional information available
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Diethylene Glycol-phthalic Anhydride Polymer (32472-85-8)

Partition coefficient n-octanol/water (Log Pow)	0.9 – 1.9
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Diethylene glycol (111-46-6)

Partition coefficient n-octanol/water (Log Pow)	-1.47
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Ethylene Glycol (107-21-1)

Mobility in soil	0.2
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Partition coefficient n-octanol/water (Log Pow)	-0.337
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Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0
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12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations. Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions.
Ecological waste information	: Avoid release to the environment.

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Additional information : Do not re-use empty containers.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

IMDG	IATA	UNRTDG
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated		
No supplementary information available		

14.6. Special precautions for user

Transport by road and rail

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Transport in bulk according to IMO instruments

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Diethylene glycol (111-46-6)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR002709
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Ethylene Glycol (107-21-1)

Hazardous Substances and New Organisms Act

HSNO Approval Number	HSR001534
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15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

Issue date : 11/09/2025

Data sources : SDS prepared by CHEMTREC.

Full text of H-statements

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H302	Harmful if swallowed
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

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.