Protea Chemicals
A member of the Ormia Group
Innoverthem just a chemical supplier
Revision: 30.08.2017

Printing date 30.08.2017

Version number 4

· Product identifier

· Trade name: DI ETHYLENE GLYCOL

· Article number: PL0014 · CAS Number: 111-46-6

· EC number: 203-872-2 · Index number:

603-140-00-6
• Relevant identified uses of the substance or mixture and uses advised against Industrial use

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Johannesburg 1 Berrange Road Wadeville, Germiston Tel: 011-821 3300

Port Elizabeth 127 Grahamstown Road Deal Party, Port Elizabeth Tel: 041-403 1000

Cape Town 54 Killarney Avenue Killarney Gardens, Milnerton, Cape Town Tel: 021-550 8100

Jacobs 150 Quality Street, Jacobs, Durban Tel: 031-468 5424

Mobeni 90 Pendlebury Road, Mobeni Tel: 031-469 0165

· Further information obtainable from: Protea Chemicals

· Emergency telephone number:

08610 OMNIA or 08610 66642

2 Hazards identification

· Classification of the substance or mixture



Acute Tox. 4 H302 Harmful if swallowed.

- · Label elements
- · GHS label elements

The substance is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



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- · Signal word Warning
- · Hazard statements

Harmful if swallowed.

· Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterisation: Substances
- · CAS No. Description

DI ETHYLENE GLYCOL

- · Identification number(s)
- · EC number: 203-872-2
- · Index number: 603-140-00-6

4 First aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Wash off with soap and plenty of water. Wash contaminated clothing before re-use.
- · After eye contact:

Rinse opened eye for several minutes under running water for 15 minutes. Get medical attention if irritation persists.

· After swallowing:

Call for a doctor immediately. Do not induce vomiting. Rinse mouth with water (only if person is conscious).

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions. Water spray jet, foam. Dry fire-extinguishing substance.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Use breathing apparatus with independent air supply (Isolated)

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6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective gear. Do not inhale the material or its combustion products. Go against the wind and keep out of low areas. Evacuate personnel to safe area.

· Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water. Should not be released into the environment.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Transfer into suitable containers. To be disposed of in compliance with existing regulations. After cleaning, flush away traces with water.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

No special precautions are necessary if used correctly. Avoid contact with skin, eyes and clothing.

· Information about fire - and explosion protection:

Put on appropriate personal protective equipment. Keep away from open flames, shut of the production of sources of ignition. Eelectricity: static electricity, electricity sparks, heat. Do not breathe vapor or mist. No smoking.

- · Conditions for safe storage, including any incompatibilities
- · Storage.
- · Requirements to be met by storerooms and receptacles:

Observe the rules usually applicable when handling chemicals.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep containers tightly closed in a cool, well-ventilated place.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

 $\cdot \textit{Additional information about design of technical facilities:} \\$

Ensure eyewash stations and safety showers are close to the workstation location.

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls

Occupational Exposure Limits (OEL)

TWA OEL-RL SHORT REM OEL-RL

100mg/m3

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

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· Respiratory protection:

In case of dust formation, wear micro dust mask. Use respiratory equipment with suitable filter or wear a self contained respiratory apparatus.

· Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/the preparation/ the chemical mixture.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Safety glasses.

Physical and chemical properties		
Information on basic physical and chem	nical properties	
· General Information		
· Appearance:		
Form:	Fluid	
Colour:	Colourless	
· Odour:	Nearly odourless	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/freezing point:	-8,5 °C	
Initial boiling point and boiling range	2: 245,5 °C	
· Flash point:	146 °C	
· Flammability (solid, gas):	Not applicable.	
· Ignition temperature:	225 °C	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Not determined.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	0,7 Vol %	
Upper:	22 Vol %	
· Vapour pressure at 20 °C:	0,03 hPa	
Density at 20 °C:	1,12 g/cm³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Fully miscible.	
· Partition coefficient: n-octanol/water:	Not determined.	

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· Viscosity:

Dynamic at 20 °C: 38 mPas Kinematic: Not determined.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity

Oral LD50 12565 mg/kg (rat)
Dermal LD50 11890 mg/kg (rabbit)

- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · **Mobility in soil** No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

UN-Number		
ADR, ADN, IMDG, IATA	Void	
UN proper shipping name ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class Subsidiary risk	Void -	
Packing group ADR, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	
Special precautions for user ERG No.	Not applicable. -	
Transport in bulk according to Annex I. and the IBC Code	I of Marpol Not applicable.	
UN "Model Regulation":	Void	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · GHS label elements

The substance is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

Harmful if swallowed.

· Precautionary statements

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Rinse mouth.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4

- PRC