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MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers Product name : Diethylene Glycol

CAS-No. : 111-46-6

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company :ChemicalBull Pvt Ltd 123/124, Panchratna, G.I.D.C Char Rasta,Vapi-396195 Dist, Valsad, Gujarat, INDIA

Website:- chemicalbull.com

Email:- info@chemicalbull.com

1.4 Emergency telephone

Emergency Phone : +91 9696960250

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation Acute toxicity, Oral

For the full text of the Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation

Pictogram

Warning

Signal word Hazard statement(s) H302

Harmful if swallowed.

Precautionary statement(s) P264	Wash skin thoroughly after handling.		
P270	Do not eat, drink or smoke when using this product.		
P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.		
P501	Dispose of contents/ container to an approved waste disposal plant.		
Supplemental Hazard Statements	none		
Reduced Labeling (<= 125 ml) Pictogram			

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Signal word	Warning
Hazard statement(s)	none
Precautionary statement(s)	none
Supplemental Hazard Statements	none

2.3 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.

3.1	FION 3: Composition/information on ingredients Substances				
	Synonyms	: 2,2'-Oxydiethanol Bis(2-hydroxyethy Diglycol 2-Hydroxyethyl et			
	Formula	: C ₄ H ₁₀ O ₃			
	Molecular weight CAS-No.	: 106,12 g/mol : 111-46-6			
	Component		Classification	Concentration	
	diethylene glycol				
	CAS-No.	111-46-6	Acute Tox. 4; H302	<= 100 %	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 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

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Cool containers/tanks with water spray. Prevent fire extinguishing water from contaminatingsurface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material Dispose of properly. Clean up affected area.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed.

hygroscopic Heat sensitive. Store under inert gas.

Storage class

Storage class (TRGS 510): 10: Combustible liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in please contact the supplier of approved gloves

Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min

Body Protection

protective clothing

Respiratory protection

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: viscous liquid Color: colorless	
b)	Odor	odorless	
c)	Odor Threshold	Not applicable	
d)	рН	6 - 8 at 200 g/l at 20 °C	
e)	Melting point/freezing point	Melting point/range: -10 °C - lit.	
f)	Initial boiling point and boiling range	245 °C - lit.	
g)	Flash point	138 °C - closed cup	
h)	Evaporation rate	No data available	
i)	Flammability (solid, gas)	No data available	
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 37 %(V) Lower explosion limit: 1,7 %(V)	
k)	Vapor pressure	< 0,1 hPa at 25 °C	
I)	Vapor density	3,66	
m)	Density	1,118 g/cm3 at 25 °C - lit.	
	Relative density	1,118 at 20 °C	
n)	Water solubility	1.000 g/l at 20 °C - miscible	

o)	Partition coefficient: n-octanol/water	log Pow: -1,98 at 25 °C - Bioaccumulation is not expected., (IUCLID)
p)	Autoignition	372 °C at 1.013,25 hPa

temperatureat 1.013,25 hPaq)Decomposition
temperatureDistillable in an undecomposed state at normal pressure.

r) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: 30 mPa.s at 25 °C

- s) Explosive properties No data available
- t) Oxidizing properties none

9.2 Other safety information

Relative vapor 3,66 density

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents Exothermic reaction with: Strong acids

10.4 Conditions to avoid

Heating in air. Exposure to moisture. Strong heating.

10.5 Incompatible materials Zinc

10.6 Hazardous decomposition products In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral: No data available Inhalation: No data available LD50 Dermal - Rabbit - 11.890 mg/kg Remarks: (RTECS)

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation Remarks: (IUCLID)

Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation Remarks: (IUCLID)

Respiratory or skin sensitization

Maximization Test - Guinea pig Result: negative (Regulation (EC) No. 440/2008, Annex, B.6) Remarks: (ECHA)

Germ cell mutagenicity

Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

Test Type: In vivo micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 28 Days - NOAEL (No observed adverse effect level) - 936 mg/kg - LOAEL (Lowest observed adverse effect level) - 40.000 mg/kg

RTECS: ID5950000

Symptoms and signs of poisoning are:

Confusion., Dizziness, Kidney injury may occur., Unconsciousness, Convulsions, Nausea, Headache, Vomiting, Pulmonary edema. Effects may be delayed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

flow-through test LC50 - Pimephales promelas (fathead minnow) - 75.200 mg/l - 96 h Remarks: (ECHA)

Toxicity to bacteria

12.2 Persistence and degradability

No data available

Theoretical oxygen	1.510 mg/g
demand	Remarks: (Lit.)

Ratio BOD/ThBOD 1,3 - 10 % Remarks: (Lit.)

- **12.3 Bioaccumulative potential** No data available
- 12.4 Mobility in soil

No data available

12.5 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.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

See for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information					
14.1	UN numb ADR/RID:		IMDG: -	IATA: -	
14.2	14.2 UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods				
14.3	Transport ADR/RID:	t hazard class(es) -	IMDG: -	IATA: -	
14.4	Packaging ADR/RID:		IMDG: -	IATA: -	

14.5 Environmental hazards ADR/RID: no

IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir national regulations where applicable.

Take note on the protection of young people at work.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. ChemicalBull Pvt Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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