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Material Safety Data Sheet Diethylenetriamine

1. IDENTIFICATION

Product name: Diethylenetriamine

Company:MIT-IVY INDUSTRY CO.,LTD

Address: 2-1402, Office Building 2, Commercial Inner Street And Office 1,

Shimao Plaze Yunlong District Xuzhoujiangsu, China 221100

Telephone:0086-13805212761 **Fax**:0086-0516-83769139 **E-mail**:INFO@MIT-IVY.COM

Emergency telephone: 0086-13805212761

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS
HEALTH HAZARDS

Acute toxicity (Oral) Category 4 **Acute toxicity (Dermal)** Category 4 Acute toxicity (Inhalation) Category 2 Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Respiratory sensitization Category 1 Skin sensitization Category 1 Category 1B Reproductive toxicity

ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 3

Label elements

Pictograms or hazard symbols



Signal word Hazard statements Danger

Fatal if inhaled

Not classified

Harmful if swallowed or in contact with skin Causes severe skin burns and eye damage

May cause allergy or asthma symptoms or breathing

difficulties if inhaled

May cause an allergic skin reaction
May damage fertility or the unborn child

Harmful to aquatic life

Precautionary statements [Prevention]

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist, vapors or spray.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

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

Contaminated work clothing should not be allowed out of the workplace.

Wash hands and face thoroughly after handling.





Wear respiratory protection.

Wear protective gloves, protective clothing, face protection.

[Response] IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a

POISON CENTER or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash

contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor.

IF exposed or concerned: Get medical advice or attention. Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

[Disposal] Dispose of contents and container in accordance with local, regional, national

regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: Diethylenetriamine >98.0%(GC)(T) 111-40-0

Synonyms: 2,2'-Diaminodiethylamine

Chemical Formula: C₄H₁₃N₃

4. FIRST AID MEASURES

[Storage]

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty

of soap and water. Immediately call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT

induce vomiting.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and

air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Dry chemical, foam, water in large amounts, carbon dioxide.

media:

Specific hazards arising from Take care as it may decompose upon combustion or in high temperatures to

the chemical: generate poisonous fume.

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable

fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the

surroundings: Remove movable containers if safe to do so.

Special protective equipment When extinguishing fire, be sure to wear personal protective equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

controlled around the leakage area by roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for containment and cleaning

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered

or collected material should be promptly disposed of, in accordance with

appropriate laws and regulations.

up:



7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective

equipment. Prevent generation of vapour or mist. Wash hands and face

thoroughly after handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapour or

aerosol will be generated.

Advice on safe handling: Avoid all contact!

Conditions for safe storage, including any

incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store under inert gas. Protect from moisture. Store locked up.

Store away from incompatible materials such as oxidizing agents.

Hygroscopic

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Exposure limits:

ACGIH TLV(TWA): 1 ppm (skin)
OSHA PEL(CL): 10 ppm (skin)

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA),

supplied air respirator, etc. Use respirators approved under appropriate

government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Clear

Colorless - Very pale yellow

Odour: Ammoniacal No data available

Melting point/freezing point: -35°C
Boiling point/range: 209°C
Flash point: 97°C

Flammability or explosive

limits:

 Lower:
 2%

 Upper:
 6.7%

 Vapour pressure:
 37Pa/20°C

 Vapour density:
 3.56

 Relative density:
 0.95

Solubility(ies):

[Water] Miscible

[Other solvents]

Miscible: Methanol, Benzene, Acetone, Ethanol

Soluble: Petroleum ether

Insoluble: Heptane
Log Pow: -2.13
Autoignition temperature: 358°C





10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous No special reactivity has been reported.

reactions:

Incompatible materials: Oxidizing agents, Acids, Metals, Organic nitrogen compounds Hazardous decomposition Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

products:

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: orl-rat LD50:1080 mg/kg

skn-rbt LD50:1090 mg/kg ihl-rat LCLo:70 mg/m³/4H ipr-rat LD50:74 mg/kg

Skin corrosion/irritation: skn-rbt 500 mg open MOD

Serious eye No data available

damage/irritation:

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available

RTECS Number: IE1225000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: 48h LC50:780 ppm (Oryzias latipes) **Crustacea:** 48h LC50:53.5 mg/L (Daphnia magna)

Algae: 96h EC50:345.6 mg/L (Selenastrum capricornutum)

Persistence / degradability: 0 % (by BOD), 4.3 % (by UV-VIS)

Bioaccumulative <0.3 - 1.7 (conc. 2 ppm), <2.8 - 6.3 (conc. 0.2 ppm)

potential(BCF): Mobility in soil

Log Pow: -2.13
Soil adsorption (Koc): 88
Henry's Law (PaM ³/mol): 1.0 x 10-9

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class: 8: Corrosive.

UN-No: 2079

Proper shipping name: Diethylenetriamine

Packing group:

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

This product is included in the list of dangerous chemicals (2015)/Serial No.: 636





16. OTHER INFORMATION

Further information

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