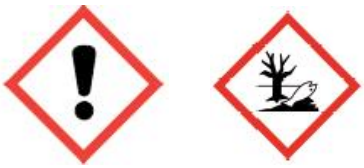
Chemical Safety Data Sheet

SECTION 1 IDENTIFICATION

GHS Product identifier: Diethyltoluenediamin.
Other means of identification: /
Recommended use of the chemical and restrictions on use: /
Supplier's details: Chemball (hangzhou) Chemicals Co.,Ltd.
Emergency phone number: +86 15306516099

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture
Acute Toxicity (Oral) Category 4.
Acute Toxicity (Dermal) Category 4.
Serious Eye Damage/Eye Irritation Category 2A.
Specific Target Organ Toxicity - Repeated Exposure Category 2.
Hazardous to the Aquatic Environment - Acute Hazard Category L.
Hazardous to the Aquatic Environment - Long Term Hazard Category l.
GHS Label elements, including precautionary statements



Signal word: Warning.
Hazard statement(s): Harmful if swallowed. Harmful in contact with skin. Causes serious eye iritation.May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with longlasting effects.
Precautionary statement(s):
Prevention: Wash thoroughly afer handling. Do not eat, drink or smoke when using this product. Wearprotective glovesprotective clothing/eye protection/face protection. Do not breathe dustfumelgasmist vapors / spray. Avoid release to the environment.
Response:1F SWALLOWED: Rinsemouth. CallaPOlSON CENTER/doctor if you feel unwel. IF oNSKIN: Take off contaminated clohig, Wash with plenty of water. Call a POISON CENTERdoctor ifvoufeunwel. Speifetratment (seee next,. Wash conaminated clothing before reuse. IF IN EYES. Rinsecautiously wihwater for several minutes. Remove contact lenses, if present and easy to do Contnuearinsing. If eye irrtion persists: Get medical advice/attention. Get medical advice/attetion if you feel unwell. Collect spilage.
Storage:/
Disposal: Dispose of corcontents/container o....
Other hazards which do not result in assifiaton:/

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Diethyltoluenediamine	68479-98-1	100%

SECTION 4 FIRST AID MEASURES

Description of necessary first aid measures

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Immediately remove all contaminated clothing, including footwear. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: /

Indication of immediate medical attention and special treatment needed： /

SECTION 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Foam. Dry chemical powder. Carbon dioxide. Water spray or fog - Large fires only.

Special hazards arising from the chemical: Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive.

Special protective actions for fire-fighters: Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.

Environmental precautions: Prevent, by any means available, spillage from entering drains or water courses.

Methods and materials for containment and cleaning up: Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers.

Conditions for safe storage, including any incompatibilities: Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this MSDS.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: /

Appropriate engineering controls: Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances.

Personal protective equipment

Eye/face protection: Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection: Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber. The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.

Respiratory protection: Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

Thermal hazards: /

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow thick liquid
Odour	/
Odour Threshold	/
pH	/
Melting point/freezing point	-9℃
Initial boiling point and boiling range	308℃
Flash point	/
Evaporation rate	/
Flammability (solid, gas)	/
Upper/lower flammability or explosive limits	/
Vapour pressure	/
Vapour density	>3(Air=1)
Relative density	1.02(Water=1)
Water solubility	Partly miscible
Partition coefficient: noctanol/water	/
Autoignition temperature	/
Decomposition temperature	/
Viscosity	/

SECTION 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: Product is considered stable under normal handling conditions.

Possibility of hazardous reactions: On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Strong acids, oxidising agents.

Hazardous decomposition products: carbon monoxide (CO), carbon dioxide (CO_2), nitrogen oxides (NOx), sulfur oxides (SOx), other pyrolysis products typical of burning organic material.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Inhaled, Ingestion, skin, eyes.

Symptoms related to the physical, chemical and toxicological characteristics: /

Acute health effects

Inhalation: Inhalation of aerosols (mists, fumes) may be damaging to the health of the individual.

Ingestion: Accidental ingestion of the material may be harmful.

Skin: Skin contact with the material may be harmful; systemic effects may result following absorption.

Eyes: The material may cause eye irritation in a substantial number of individuals and/or may producesignificant ocular lesions.

Chronic health effects: Limited evidence suggests that repeated or long-term occupational exposure mayproduce cumulative health effects involving organs or biochemical systems.

Numerical measures of toxicity (such as acute toxicity estimates):

Dermal(rabbit) LD_{50}: >700mg/kg

Oral (rat) LD_{50}: 470-540 mg/k

SECTION 12 ECOLOGICAL INFORMATION

Toxicity: Very toxic to aquatic life with long lasting effects.

Persistence and degradability: /

Bioaccumulative potential: /

Mobility in soil: /

Other adverse effects: /

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods: Recycle wherever possible or consult manufacturer for recycling options. Consult Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

UN number: 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es): 9.

Packaging group: III.

Environmental hazards: Marine pollutant.

Special precautions for user: /

SECTION 15 REGULATORY INFORMATION

Regulations: This safety data sheet is in compliance with the following national standards: GB 16483-2008, GB 13690-2009, GB/T 15098-2008, GB 18218-2009, GB 15258-2009, GB 6944-2012, GB 190-2009, GB 191-2009, GB 12268-2008, GA 57-1993, GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation [Published by the Ministry of Railways, 2008], Dangerous Chemicals Safety Administrative Regulation [Published by the State Council, 2011].

SECTION 16 OTHER INFORMATION

References	“Model Regulations on the Transport of Dangerous Goods” “The Globally Harmonized System of Classification and Labelling of Chemicals”
Form Date	26-Mar.-2023

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information (such as boiling point does not exist for the solid) in the table with "/" logo.