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MATERIALS SAFETY DATA SHEET

1. Product Identification

1.1 Product identifier
Product name: (-)-Limonene oxide
Catalog No.: DC37705
CAS No.:
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: DC CHEMICALS
Tel: +86-21-61454686
Fax: +86-21-61642470
1.4 Emergency telephone number
Emergency phone #: +86-13564518121

2. HAZARDS IDENTIFICATION

32.1 Classification of the substance or mixture
Not a hazardous substance or mixture.
32.2 GHS Label elements, including precautionary statements
Not a hazardous substance or mixture.
32.3 Other hazards
None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Synonyms: Limonene oxide, (-)-; FEMA No. 4656; L-1,2-Epoxylimonene; Formula: C10H16O Molecular Weight: 152.23 CAS No.:

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact

Remove any contact lenses, locate eye-wash station, and flush eyes immediately with large amounts of water. Separate eyelids with fingers to ensure adequate flushing. Promptly call a physician.

Skin contact

Rinse skin thoroughly with large amounts of water. Remove contaminated clothing and shoes and call a physician.

Inhalation

Immediately relocate self or casualty to fresh air. If breathing is difficult, give cardiopulmonary resuscitation (CPR). Avoid mouth-tomouth resuscitation.

Ingestion

Wash out mouth with water; Do NOT induce vomiting; call 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).

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher. During combustion, may emit irritant fumes.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing.

6.ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use full personal protective equipment. Avoid breathing vapors, mist, dust or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Refer to protective measures listed in sections 8.

6.2 Environmental precautions

Try to prevent further leakage or spillage. Keep the product away from drains or water courses.

6.3 Methods and materials for containment and cleaning up

Absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); Decontaminate surfaces and equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation. 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

Recommended storage temperature: Store at -20°C.

7.3 Specific end use(s)

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters This product contains no substances with occupational exposure limit values. 8.2 Exposure controls **Engineering controls** Ensure adequate ventilation. Provide accessible safety shower and eye wash station. Personal protective equipment Eye protection: Safety goggles with side-shields. Hand protection: Protective gloves. Skin and body protection: Impervious clothing. Respiratory protection: Suitable respirator. Environmental exposure controls: Keep the product away from drains, water courses or the soil. Clean spillages in a safe way as soon as possible.

9. PHTSICAL AND CHEMICAL PROPERTIES

19.1 Information on basic physical and chemical properties

Appearance Solid Odor No data available Odor threshold No data available pH No data available Melting/freezing point No data available Boiling point/range No data available Flash point No data available Evaporation rate No data available Flammability (solid. gas) No data available Upper/lower flammability or explosive limits No data available Vapor pressure No data available Vapor density No data available Relative density No data available Water solubility No data available Partition coefficient No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available Explosive properties No data available Oxidizing properties No data available 9.2 Other safety information

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available.
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available.
10.4 Conditions to avoid
No data available.
10.5 Incompatible materials
Strong acids/alkalis, strong oxidising/reducing agents.
10.6 Hazardous decomposition products
Under fire conditions, may decompose and emit toxic fumes.
Other decomposition products - no data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Classified based on available data. For more details, see section 2. **Skin corrosion/irritation**

Classified based on available data. For more details, see section 2.

Serious eye damage/irritation

Classified based on available data. For more details, see section 2. **Respiratory or skin sensitization**

Classified based on available data. For more details, see section 2.

Germ cell mutagenicity

Classified based on available data. For more details, see section 2.

Carcinogenicity

IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

Reproductive toxicity

Classified based on available data. For more details, see section 2.

Specific target organ toxicity - single exposure

Classified based on available data. For more details, see section 2.

Specific target organ toxicity - repeated exposure

Classified based on available data. For more details, see section 2. Aspiration hazard

Classified based on available data. For more details, see section 2.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available.
12.2 Persistence and degradability
No data available.
12.3 Bioaccumlative potential
No data available.
12.4 Mobility in soil
No data available.
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment unavailable as chemical safety assessment not required or not conducted.
12.6 Other adverse effects
No data available.

13.DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Product Dispose substance in accordance with prevailing country, federal, state and local regulations.

Contaminated packaging

Conduct recycling or disposal in accordance with prevailing country, federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (US)

This substance is considered to be non-hazardous for transport.

IMDG

This substance is considered to be non-hazardous for transport.

IATA

This substance is considered to be non-hazardous for transport.

15. REGULATORY INFORMATION

SARA 302 components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. **SARA 313 components:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 hazards:

No SARA Hazards.

Massachusetts Right to Know components:

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know components:

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know components:

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

The above information is believed to be correct based on our present knowledge but does not purport to be complete. The product is for research use only and for trained personnel. The burden of safe use of this material rests entirely with the user. DC CHEMICALS disclaims all liability for any damage resulting from use of this material.