SISCO RESEARCH LABORATORIES PVT. LTD.

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Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name	2-Diethylaminoethanol (DEAE) extrapure, 99%
Product Code	77141
CAS No	100-37-8
Company Name	Sisco Research Laboratories Pvt. Ltd.
Address	608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road, Andheri (E), Mumbai - 400 099, India

Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
100-37-8	2-Diethylaminoethanol	99%	202-845-2

No components need to be disclosed according to the applicable regulations.

Section 3 - Hazards Identification

Risk advice to man and the environment

Flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes burns

Section 4 - First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.Consult a physician.

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

Notes to Physician:

Section 5 - Fire Fighting Measures

Extinguishing Media

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special Protective Equipment For Firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Further information: Use water spray to cool unopened containers.

Section 6 - Accidental Release Measures

Procedure(S) Of Personal
Precaution(S): Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions: Do not let product enter drains.

Methods for cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.Store under inert gas.

Section 8 - Exposure Control / Personal Protection

Personal Protective Equipment

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye Protection: Safety glasses

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Density: 0.883-0.885 g/ml
Molecular Formula: C6H15NO
Molecular Weight: 117.19

Section 10 - Stability and Reactivity

Storage stability: Stable under recommended storage conditions.
Conditions to avoid: Hygroscopic. Avoid moisture.Heat, flames and sparks.
Materials to avoid: Strong oxidizing agents, Strong acids, Copper, Zinc, Iron, Do not store near acids.
Hazardous decomposition Products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Section 11 - Toxicological Information

Acute toxicity: LD50 Oral - rat - 1.300 mg/kg
LC50 Inhalation - mouse - 5.000 mg/m3
Remarks: Brain and Coverings:Recordings from specific areas of CNS. Sense Organs and Special Senses
(Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation.
Behavioral:Convulsions or effect on seizure threshold.
LD50 Dermal - rabbit - 1.113 mg/kg
Irritation and corrosion: Skin - rabbit - Open irritation test
Eyes - rabbit - Severe eye irritation
Sensitisation: May cause allergic skin reaction.
Chronic exposure: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Signs and Symptoms of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea
Potential Health Effects
Inhalation: Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin: Harmful if absorbed through skin. Causes skin burns.
Eyes: Causes eye burns.
Ingestion: Harmful if swallowed. Causes burns.
Target Organs: Liver, Kidney,
Additional Information: RTECS: KK5075000

Section 12 - Ecological Information

Elimination information (persistence and degradability): Biodegradability Biotic/Aerobic
Ecotoxicity effects: Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - 100 - 220 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.
EC50 - Daphnia magna (Water flea) - 83,6 mg/l - 48 h
Toxicity to algae EC50 - Algae - 30 mg/l - 72 h
Further information on ecology:

No data available.

Section 13 - Disposal Considerations

Product: This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	2-Diethylamino ethanol	2-Diethylamino ethanol	2-Diethylamino ethanol
Hazard Class:	8 (3)	8 (3)	8 (3)
UN Number:	2686	2686	2686
Packing Group:	II	II	II

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.