

Material Safety Data Sheet

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Section 1 - Product and Company Information

Product Name

N.N-Diisopropylethylamine, ReagentPlus®, 99% D125806

Product Number Brand

Sigma-Aldrich

Company Street Address City, State, Zip, Country Sigma-Aldrich 3050 Spruce Street

Technical Phone: 800-325-5832 800-325-5052

Fax:

SAINT LOUIS, MO 63103 US

Emergency Phone:

314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313

EC no Annex I Index Number

DIISOPROPYLETHYLAMINE

7087-68-5

230-392-0

Formula Synonyme CBH19N

Section 3 - Hazards Identification

Emergency Overview

Flammable (USA) Highly Flammable (EU). Corrosive.

Hamful if swallowed. Causes burns. Hamful to aquatic organisms, may cause long-term adverse effects in the aquatic environment,

HMIS Rating

Health: 3

Flammability: 3

Reactivity: 0

NFPA Rating

Health: 3

Flammability: 3

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the evelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Flammable Hazards:

Explosion Hazards

Vapor may travel considerable distance to source of ignition and flash back.

Container explosion may occur under fire conditions.

Yes

Forms explosive mixtures in air.

Flash Point:

51 °F

240 °C

10.6 °C

Explosion Limits: Lower: 0.7 %

Upper: 6,3 % Flammability:

Yes

Autoignition Temp: 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.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Flammable liquid. Emils toxic furnes under fire conditions.

Specific Method(s) of Fire Fighting

Use water spray to cool fire-exposed containers.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

User Exposure

Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repealed exposure.

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Storage

Suitable

Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place

Special Requirements

Handle and store under inert gas.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Use nonsparking tools. Use only in a chemical fume hood.

Personal Protective Equipment

Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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.

Hand

Compatible chemical-resistant gloves.

Chemical safety goggles.

Other

Faceshield (8-inch minimum).

General Hygiene Measures

Wash contaminated clothing before reuse. Discard contaminated shoes, Wash thoroughly after handling,

Section 9 - Physical/Chemical Properties

Appearance

Physical State Clear liquid

Color Colorless

Molecular Weight:

129.25 AMU

Property <u>Value</u>

12.3 рΗ

BP/BP Range 127 °C

-50 °C MP/MP Range

Freezing Point N/A

Vapor Pressure 31 mmHg

Vapor Density N/A

Saturated Vapor Conc.

N/A SG/Density 0.742 g/cm3

Bulk Density Odor Threshold Volatile%

N/A N/A N/A

VOC Content N/A Water Content N/A Solvent Content N/A **Evaporation Rate** NΑ Viscosity N/A Partition Coefficient

NΑ Decomposition Temp. N/A Flash Point °F 51 °F Flash Point °C 10,6 °C

Explosion Limits Lower: 0.7 % Upper: 6,3 %

Flammability

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Method closed cup

Method: closed cup

At Temperature or Pressure

760 mmHa

37.7 °C

Autoignition Temp Refractive Index

240 °C 1.414 N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability

Solubility

Stable

Stable.

Materials to Avoid

Acids, Acid chlorides, Acid anhydrides, Strong oxidizing agents, Carbon dioxide, Copper, Brass, Rubber.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure Skin Contact

Causes burns.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

Causes burns

Inhalation

Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion

May be harmful if swallowed.

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

Toxicity Data

Oral - Rat: >200 - <500 MG/KG(LD50)

Section 12 - Ecological Information

Acute Ecotoxicity Tests

Test Type EC50 Daphnia Species Daphnia magna

Time: 48.0 h

Value: 74.3 mg/l

Elimination

Additional Results/Data from Relevent Scientific Experiments

May be harmful to aquatic organisms due to the shift of the pH. Avoid contamination of the environment

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Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

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Proper Shipping Name: Arnines, flammable, corrosive, n.o.s. [or] Polyamines, flammable, corrosive, n.o.s.

UN#: 2733

Class: 3

Packing Group: Packing Group II Hazard Label: Flammable liquid

Hazard Label: Corrosive

PIH: Not PIH

Proper Shipping Name: Amines, flammable, corrosive, n.o.s.

IATA UN Number: 2733 Hazard Class: 3 Packing Group: II

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: F C

Indication of Danger

Highly Flammable, Corrosive,

Risk Statements R: 11 22 34 52/53

Highly flammable. Harmful if swallowed, Causes burns, Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

S: 16 26 36/37/39 45 60 Safety Statements

Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous

US Classification and Label Text

Indication of Danger

Flammable (USA) Highly Flammable (EU). Corrosive.

Risk Statements

Harmful if swallowed. Causes burns. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Statements

Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take precautionary measures against static discharges. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste.

United States Regulatory Information

SARA Listed: No

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSI: Yes

NDSL: No

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Section 16 - Other Information

For R&D use only. Not for drug, household or other uses.

Disclaimer

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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. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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