

Material Safety Data Sheet

Date Printed: 06/22/2006 Date Updated: 02/01/2006

Version 1.30

Section 1 - Product and Company Information

Product Name

(-)-3,4-Dihydroxynorephedrine, approx. 90% D5290

Product Number Brand

Sigma Chemical

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

SAINT LOUIS, MO 63103 US

Technical Phone: Fax:

800-325-5832 800-325-5052 Emergency Phone:

314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name

CAS#

SARA 313

EC no Annex | Index

(-)-3,4-DIHYDROXYNOREPHEDRINE, 98%

829-74-3

No

Number

Formula

C9H13NO3

Synonyme

Section 3 - Hazards Identification

Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

HMIS Rating

Health: 1

Flammability: 0

Reactivity: 1

NFPA Rating

Health: 1

Flammability: 0

Reactivity: 1

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

Section 4 - First Aid Measures

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

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

Dermal Exposure

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

Eve Exposure

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

Section 5 - Fire Fighting Measures

Autoignition Temp:

NΑ

Extinguishing Media

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam,

Firefighting

Protective Equipment

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

Specific Hazard(s)

Emits toxic fumes under fire conditions.

Exposure Hazard(s)

Material

Irritant, Harmful solid.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Store in a cool dry place. Store in the dark. Store at -20°C

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required

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 dust mask type N95 (US) or type P1 (EN 143)

Hand

Compatible chemical-resistant gloves

Chemical safety goggles.

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General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Physical State

Color

Solid While

Molecular Weight:

183:21 AMU

N/A BP/BP Range N/A 219 °C MP/MP Range Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A SG/Density N/A **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** NA **Water Content** N/A Solvent Content N/A **Evaporation Rate** N/A Viscosity N/A Partition Coefficient NΑ Decomposition Temp. NΑ Flash Point °F NΑ Flash Point °C N/A **Explosion Limits** N/A

Autoignition Temp N/A = not available

Flammability

Solubility

Section 10 - Stability and Reactivity

Stability

Stable

Stable.

Conditions to Avoid

Light.

Materials to Avoid

Strong oxidizing agents, Strong acids, Strong bases.

N/A

N/A

N/A

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides.

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Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

Causes skin irritation.

Skin Absorption

Harmful if absorbed through skin.

Eve Contact

Causes eye irritation.

Inhalation

Harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion

Harmful if swallowed.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

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

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

Proper Shipping Name: Toxic solids, organic, n.o.s.

UN#: 2811

Class: 6.1

Packing Group: Packing Group III

Hazard Label: Toxic substances.

PIH: Not PIH

Proper Shipping Name: Toxic solid, organic, n.o.s.

IATA UN Number: 2811 Hazard Class: 6.1 Packing Group: III

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xn

Indication of Danger

Harmful.

Risk Statements

R: 20/21/22 36/37/38

Hammful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

Safety Statements

S: 26 36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

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US Classification and Label Text

Indication of Danger

Hamful,

Risk Statements

Harmful by Inhalation, In contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

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.

DSL: No NDSL: No

Section 16 - Other Information

Disclaimer

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

Warranty

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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