

Material Safety Data Sheet

Date Printed: 02/15/2001 Date Updated: 10/14/1999 Version 1.0

Section 1 - Product and Company Information

Product Name Product Number

Technical Phone:

Brand

B-NICOTINAMIDE ADENINE DINUCLEOTIDE, REDUCED FORM DISODIUM

N8129

Sigma Chemical

Company Street Address City, State, Zip, Country Sigma-Aldrich 3050 Spruce Street St. Louis, MO, 63103, US

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Section 2 - Composition/Information on Ingredient

Substance Name B-NICOTINAMIDE ADENINE CAS# None

SARA 313 No

DINUCLEOTIDE, REDUCED FORM DISODIUM

Formula Synonyms

Section 3 - Hazards Identification

Emergency Overview

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

Target organ(s): Nerves. Eyes.

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.

Inhalation Exposure

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

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Autoignition Temp:

N/A

Flammability:

N/A

Extinguishing Media

Suitable

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

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.

Section 6 - Accidental Release Measures

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

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required

Personal Protective Equipment

Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

General Hygiene Measures

Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Physical State

Solid

Molecular Weight: N/A	
Property	<u>Value</u>
Hq	N/A
BP/BP Range	N/A
MP/MP Range	N/A
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	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A

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Flash Point °F N/A
Flash Point °C N/A
Explosion Limits N/A
Autoignition Temp N/A
Solubility N/A

Section 10 - Stability and Reactivity

Stability

Stable

Stable.

Materials to Avoid

Strong oxidizing agents.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Phosphorous oxides

Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Inhalation

Material is irritating to mucous membranes and upper respiratory tract.

Multiple Routes

Harmful if swallowed, inhaled, or absorbed through skin. Causes eye and skin irritation.

Target Organ(s) or System(s)

Damage to the eyes. Damage to the liver. Damage to the heart. Damage to the kidneys, Nerves, Liver, Eyes, Kidneys,

Signs and Symptoms of Exposure

Exposure can cause: CNS depression. Gastrointestinal disturbances. Narcotic effect. Damage to the eyes. Damage to the liver. Damage to the heart. Damage to the kidneys. May cause convulsions.

Conditions Aggravated by Exposure

The toxicological properties have not been thoroughly investigated

RTECS Number:

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

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

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Proper Shipping Name: None

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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Section 15 - Regulatory Information

US Classification and Label Text

Indication of Danger

Toxic.

Risk Statements

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

Safety Statements

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. Do not breathe dust.

US Statements

Target organ(s): Nerves. Eyes.

United States Regulatory Information

SARA 313 Listed: No

Notes: This product is subject to SARA section 313 reporting requirements.

Section 16 - Other Information

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. 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 1999 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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