# SIGMA-ALDRICH

# **Material Safety Data Sheet**

Version 3.0 Revision Date 08/27/2009 Print Date 02/13/2011

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : *N,N*-Diethyl-4-nitrosoaniline

Product Number : 134732 Brand : Sigma-Aldrich

Company : Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone : +18003255832 Fax : +18003255052 Emergency Phone # : (314) 776-6555

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 4-Nitroso-*N,N*-diethylaniline

CAS-No. EC-No. Index-No. Concentration									
N,N-Diethyl-4-nitrosoaniline									
120-22-9	204-379-5	-	-						

# 3. HAZARDS IDENTIFICATION

# **Emergency Overview**

### **OSHA Hazards**

No known OSHA hazards

# **HMIS Classification**

Health Hazard: 0 Flammability: 0 Physical hazards: 0

#### **NFPA** Rating

Health Hazard: 0
Fire: 0
Reactivity Hazard: 0

### **Potential Health Effects**

InhalationMay be harmful if inhaled. May cause respiratory tract irritation.SkinMay be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. **Ingestion** May be harmful if swallowed.

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## 4. FIRST AID MEASURES

#### **General advice**

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

#### lf inhaled

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

# In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

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

#### If swallowed

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

### 5. FIRE-FIGHTING MEASURES

## Flammable properties

Flash point no data available

Ignition temperature no data available

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### Further information

Use water spray to cool unopened containers.

#### **6. ACCIDENTAL RELEASE MEASURES**

#### Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# Methods for cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

#### Storage

Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

# Personal protective equipment

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) 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

For prolonged or repeated contact use protective gloves.

# Eye protection

Face shield and 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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Appearance**

Form solid

# Safety data

pH no data available

Melting point 82 - 84 °C (180 - 183 °F) - lit.

Boiling point no data available

Flash point no data available Ignition temperature no data available Lower explosion limit no data available Upper explosion limit no data available Water solubility no data available

# 10. STABILITY AND REACTIVITY

# Storage stability

Stable under recommended storage conditions.

# **Conditions to avoid**

Heat, flames and sparks.

### Materials to avoid

Strong oxidizing agents

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

#### 11. TOXICOLOGICAL INFORMATION

# **Acute toxicity**

no data available

#### Irritation and corrosion

no data available

#### Sensitisation

no data available

# 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as

a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as

a carcinogen or potential carcinogen by OSHA.

# Signs and Symptoms of Exposure

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **Potential Health Effects**

InhalationSkinMay be harmful if inhaled. May cause respiratory tract irritation.May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation. **Ingestion** May be harmful if swallowed.

Additional Information RTECS: BX3610000

# 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

no data available

### **Ecotoxicity effects**

no data available

# Further information on ecology

no data available

#### 13. DISPOSAL CONSIDERATIONS

#### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

#### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 2811 Class: 6.1 Packing group: I

Proper shipping name: Toxic solids, organic, n.o.s. (N,N-Diethyl-4-nitrosoaniline)

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN-Number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (N,N-Diethyl-4-nitrosoaniline)

Marine pollutant: No

**IATA** 

UN-Number: 2811 Class: 6.1 Packing group: I

Proper shipping name: Toxic solid, organic n.o.s. (N,N-Diethyl-4-nitrosoaniline)

#### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

No known OSHA hazards

#### **DSL Status**

All components of this product are on the Canadian DSL list.

# **SARA 302 Components**

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

### **SARA 313 Components**

SARA 313: 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**

N.N-Diethyl-4-nitrosoaniline CAS-No. Revision Date

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#### **New Jersey Right To Know Components**

CAS-No. Revision Date N,N-Diethyl-4-nitrosoaniline 120-22-9

### California Prop. 65 Components

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

# 16. OTHER INFORMATION

# **Further information**

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