SIGMA-ALDRICH

Material Safety Data Sheet
Version 3.6
Revision Date 09/12/2012
Print Date 10/25/2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 4-(Dimethylamino)pyridine
Product Number: 522605
Brand: Aldrich
Supplier: Sigma Aldrich
3050 Spruce Street
SAINT LOUIS MO 63143
USA
Telephone: +1 800-325-5552
Fax: +1 800-325-5552
Emergency Phone # (For both supplier and manufacturer): (314) 775-5555
Preparation Information: Sigma Aldrich Corporation
Product Safety - Americas Region
1-800-521-8956

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards
Toxic by ingestion, Highly toxic by skin absorption, Irritant

GHS Classification
Acute toxicity, Oral (Category 3)
Acute toxicity, Dermal (Category 1)
Skin Irritation (Category 2)
Eye Irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements

Signal word: Danger
Pictogram:

Hazard statement(s)
H301 Toxic if swallowed.
H310 Fatal in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 May cause respiratory irritation.

Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing.
P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>N,N-Dimethylpyridin-4-amine</td>
<td>1122-58-3</td>
</tr>
<tr>
<td>EC-No.</td>
<td>214-353-5</td>
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4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If 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
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability
Not flammable or combustible.

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

Special protective equipment for firefighters
Wear self-contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products
Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides (NOx)

6. ACCIDENTAL RELEASE MEASURES
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form: crystalline
Colour: beige

Safety data
pH: no data available
Melting point/freezing point: Melting point/range: 108 - 114 °C (226 - 230 °F)
Boiling point: 162 °C (324 °F) at 67 hPa (59 mmHg)
Flash point: 110 °C (230 °F) - closed cup
Ignition temperature: no data available
Autoignition temperature: 420 °C (788 °F)
Lower explosion limit: no data available
Upper explosion limit: no data available
Vapour pressure: 0.169 hPa (0.127 mmHg) at 25 °C (77 °F)
Density: no data available
Water solubility: 76 g/l at 20 °C (68 °F)
Partition coefficient: log Pow: 1.34
Relative vapour density: no data available
Odour: no data available
Odour Threshold: no data available
Evaporation rate: no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
no data available

Conditions to avoid
no data available

Materials to avoid
acids, Oxidizing agents

Hazardous decomposition products
Other decomposition products: no data available
Hazardous decomposition products formed under fire conditions: - Carbon oxides, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD50: 0 data available
LD50 Oral: rat - 140 mg/kg
Inhalation LC50: 0 data available
no data available
Dermal LD50
LD50 Dermal - guinea pig - 100 - 200 mg/kg

Other information on acute toxicity
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
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.

Reproductive toxicity
no data available

Teratogenicity
no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available

Aspiration hazard
no data available

Potential health effects
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: Toxic if swallowed.

Skin: May be fatal if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Signs and Symptoms of Exposure
Weakness, Convulsions

Synergistic effects
no data available

Additional information
RTCEs: US9200600

Toxicity to fish
LC50 - Danio rerio (zebra fish) - 11.6 mg/l - 96 h
NOEC - Danio rerio (zebra fish) - 5 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

Toxicity to algae
EC50 - Pseudokirchneriella subcapitata (green algae) - 1.62 - 4.22 mg/l - 72 h
NOEC - Pseudokirchneriella subcapitata (green algae) - 0.4 mg/l - 72 h

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Disperse or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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-Dimethylpyridin-4-amine)
Reportable Quantity (RQ): Marine pollutant: No

IMDG
UN number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A
Propriety shipping name: TOXIC SOLID, ORGANIC, N.O.S. (N,N-Dimethylpyridin-4-amine)

Marine pollutant: No

IATA
UN number: 2811 Class: 6.1 Packing group: I
Propriety shipping name: Toxic solid, organic, n.o.s. (N,N-Dimethylpyridin-4-amine)

15. REGULATORY INFORMATION

OSHA Hazards
Toxic by ingestion. Highly toxic by skin absorption. Irritant

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
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

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New Jersey Right To Know Components

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N,N-Dimethylpyridin-4-amine

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15. OTHER INFORMATION

Further Information
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