



SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 04/28/2005 Date Updated: 04/04/2004 Version 1.40

Section 1 - Product and Company Information

Product Name

4-(Dimethylamino)benzaldehyde, 99%, A.C.S. reagent 156477

Product Number Brand

Aldrich Chemical

Company Street Address Sigma-Aldrich

3050 Spruce Street City, State, Zip, Country SAINT LOUIS, MO 63103 US

Technical Phone:

314 771 5765

800 325 5052

Emergency Phone:

414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name

CAS# 100-10-7 **SARA 313**

No

202-819-0

EC no Annex I Index Number

4-(DIMETHYLAMINO)BENZALDEHYDE

Formula Synonyms

p-(Dimethylamino)benzaldehyde, 4-(Dimethylamino)benzaldehyde, 4-

Dimethylaminobenzenecarbonal, Ehrlich's reagent, p-Formyldimethylaniline, Reagens ehrlichovo

(Czech)

Section 3 - Hazards Identification

HMIS Rating

Health: 0

Flammability: 1

Reactivity: 0

NFPA Rating

Health: 0

Flammability: 1

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.

Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure

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

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 eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Flash Point:

352 °F

164 °C

Autoignition Temp:

N/A

Extinguishing Media

Suitable

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.

Section 6 - Accidental Release Measures

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

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repealed exposure.

Storage

Sultable

Store under inert gas. Keep tightly closed. Store in a cool dry place.

Special Requirements

Store under inert gas, Light sensitive,

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Wear dust mask

Hand

Protective gloves.

Chemical safety goggles

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

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Physical State

Color

Form

Solid

While

Crystals

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Safety and anyuonmental

Molecular Weight:

Property

149,19 AMU

At Temperature or Pressure

17 mmHg

Value

N/A 176 °C BP/BP Range MP/MP Range 72 - 75 °C 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 Flash Point °F 352 °F Flash Point °C 164 °C **Explosion Limits** N/A

Method: closed cup Method: closed cup

Flammability

N/A **Autoignition Temp** N/A

Solubility

Solubility in Water: Slightly.

N/A = not available

Section 10 - Stability and Reactivity

Stability

Stable Stable.

Conditions of Instability

May discolor on exposure to light.

Materials to Avoid

Strong bases.

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

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin-

Eye Contact

May cause eye irritation.

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May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory lracl.

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Ingestion

May be 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: CU5775000

Toxicity Data

Oral - Rat: > 6,400 mg/kg(LD50)

Intraperitoneal - Rat: 620 MG/KG (LD50)

Oral - Mouse: 800 mg/kg (LD50)

Remarks: Behavioral:General anesthetic.

Behavioral:Somnolence (general depressed activity).

Behavioral: Ataxia.

Intraperitoneal - Mouse: 200 MG/KG (LD50)

Remarks: Behavioral:General anesthetic

Behavioral:Somnolence (general depressed activity).

Behavioral:Ataxia.

Irritation Data

Skin - Rabbit:

Remarks: No irritation effect

Eves - Rabbit:

Remarks: No irritation effect

Section 12 - Ecological Information

No data available

ElimInation

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: None

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

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

Section 15 - Regulatory Information

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

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 CPA.

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DSL: Yes NDSL: No

Section 16 - Other Information

Disclaimer

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

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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
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