

Material Safety Data Sheet

Date Printed: 08/06/2004 Date Updated: 03/09/2004 Version 1.20

Section 1 - Product and Company Information

Product Name Product Number Brand

2,6-Dimethylphenol, 99% D175005 Aldrich Chemical

Company Street Address City, State, Zlp, Country Technical Phone:

Sigma-Aldrich 3050 Spruce Street SAINT LOUIS, MO 63103 US

314 771 5765 800 325 5052

414 273 3850 Ext. 5996 **Emergency Phone:**

Section 2 - Composition/Information on Ingredient

Substance Name

Fax:

CAS#

SARA 313

EC no

Annex I Index Number

2,6-DIMETHYLPHENOL

576-26-1

209-400-1

Formula Synonyms 2,6-Dimethylphenol, Phenol, 2,6-dimethyl- (9CI)

Section 3 - Hazards Identification

Emergency Overview

Flammable (USA) Highly Flammable (EU). Toxic (USA) Harmful (EU). Harmful by inhalation, in contact with skin and if swallowed. Causes burns. Readily absorbed through skin.

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

Section 4 - First Aid Measures

Immediate Treatment - Work Site

In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes

Oral Exposure

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,

Eye Exposure

Assure adequate flushing of the eyes by separating the eyelids with fingers.

Section 5 - Fire Fighting Measures

Conditions of Flammability

Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air

Flash Point:

86 °C

Autoignition Temp:

186.8 °F 599 °C

Extinguishing Media

Sultable

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) Flammable solid.

Exposure Hazard(s)

Material

Toxic, Corrosive

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves

Methods for Cleaning Up

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls

Use only in a chemical fume hood. Safety shower and eye bath.

Personal Protective Equipment

Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Faceshield (8-inch minimum).

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General Hygiene Measures

Discard contaminated clothing and shoes. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Color

Form

760 mmHg

Very faintly being

Fine crystals

At Temperature or Pressure

Method: closed cup

Method: closed cup

Molecular Weight:

122,17 AMU

N/A

N/A

N/A

N/A

186.8 °F

86 °C

Property Value N/A pН BP/BP Range 203 °C 46 °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** N/A Water Content N/A Solvent Content N/A **Evaporation Rate** N/A

Viscosity Partition Coefficient Decomposition Temp. Flash Point °F Flash Point °C

Explosion Limits Flammability **Autoignition Temp**

N/A 599 °C Solubility N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability

Materials to Avoid

Bases, Acid chlorides, Acid anhydrides, Oxidizing agents, Brass, Copper, Copper alloys.

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide.

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Section 11 - Toxicological Information

Route of Exposure

Multiple Routes

Harmful if swallowed, inhaled, or absorbed through skin. Causes burns,

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin, Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting

RTECS Number: ZE6125000

Toxicity Data

Oral - Rat: 296 mg/kg (LD50)

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Skin - Rat: 2325 mg/kg (LD50)

Remarks: Behavioral:Somnolence (general depressed activity) Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Other changes.

Skin - Rat: 2325 mg/kg (LD50)

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Other changes.

Oral - Mouse: 450 mg/kg (LD50)

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Other changes.

Oral - Mouse: 450 mg/kg (LD50)

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Other changes.

Skin - Mouse: 920 mg/kg (LD50)

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Intraperitoneal - Mouse: 150 MG/KG (LD50) Intraperitoneal - Mouse: 150 MG/KG (LD50)

Intravenous - Mouse: 80 MG/KG (LD50)

Remarks: Behavioral:General anesthetic.

Behavioral:Sleep.

Intravenous - Mouse: 80 MG/KG (LD50) Remarks: Behavioral:General anesthetic...

Behavioral:Sleep.

Oral - Rabbit: 700 mg/kg (LD50)

Remarks: Behavioral: Ataxia.

Behavioral:Muscle contraction or spasticity. Lungs, Thorax, or Respiration: Dyspnea.

Oral - Rabbit: 700 mg/kg (LD50)

Remarks: Behavioral:Ataxia.

Behavioral: Muscle contraction or spasticity.

Lungs, Thorax, or Respiration: Dyspnea.

Skin - Rabbit: 1000 mg/kg (LD50)

Skin - Rabbit: 1000 mg/kg (LD50)

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Irritation Data

Eyes - Rabbit: 100 mg

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Chronic Exposure - Carcinogen

Mouse - Skin: 4000 MG/KG 20W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

Mouse - Skin: 4000 MG/KG 20W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

Section 12 - Ecological Information

No data available,

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: Xylenois

UN#: 2261 Class: 6.1

Packing Group: Packing Group II

Hazard Label: Toxic substances

PIH: Not PIH

IATA

Proper Shipping Name: Xylenois

IATA UN Number: 2261 Hazard Class: 6.1 Packing Group: ||

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: T N

Indication of Danger

Toxic: Dangerous for the environment.

Risk Statements

R: 24/25 34 51/53

Toxic in contact with skin and if swallowed. Causes burns, Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

S: 26 36/37/39 45 61 Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid release to the environment. Refer to special instructions/safety data sheets.

US Classification and Label Text

Indication of Danger

Flammable (USA) Highly Flammable (EU), Toxic (USA) Harmful (EU),

Risk Statements

Harmful by inhalation, in contact with skin and if swallowed, Causes burns,

Safety Statements

Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eyelface protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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US Statements

Readily absorbed through skin.

United States Regulatory Information

SARA Listed: Yes Deminimis: 1 %

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

TSCA Inventory Item: Yes 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 CPR.

DSL: Yes

NDSL: No

Section 16 - Other Information

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

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 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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