SIGMA-ALDRICH

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 2,6-Dimethylphenol, 99%
Product Number D175005
Brand Aldrich Chemical

Company Sigma-Aldrich
Street Address 3050 Spruce Street
City, State, Zip, Country SAINT LOUIS, MO 63103 US
Technical Phone: 314 771 5765
Fax: 800 325 5052

Emergency Phone: 414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313	EC no	Annex I Index Number
2,6-DIMETHYLPHENOL	576-26-1	Yes	209-400-1	

Formula C8H10O
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.

Inhalation Exposure
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: 186.8 °F 86 °C

Autoignition Temp: 599 °C

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)
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
Other
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
Very faintly beige	Fine crystals

Molecular Weight: 122.17 AMU

Property	Value	At Temperature or Pressure	
pH	N/A		
BP/BP Range	203 °C	760 mmHg	
MP/MP Range	46 °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	186.8 °F		Method: closed cup
Flash Point °C	86 °C		Method: closed cup
Explosion Limits	N/A		
Flammability	N/A		
Autoignition Temp	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.

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)

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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)

Irritation Data

Eyes - Rabbit: 100 mg

Eyes - Rabbit: 100 mg

Chronic Exposure - Carcinogen

Mouse - Skin: 4000 MG/KG 20W I
Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

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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 flammable.
Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: Xylenols
UN#: 2261
Class: 6.1
Packing Group: Packing Group II
Hazard Label: Toxic substances.
PIH: Not PIH

IATA
Proper Shipping Name: Xylenols
IATA UN Number: 2261
Hazard Class: 6.1
Packing Group: II

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.
Safety Statements **S:** 26 36/37/39 45 61
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 eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

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

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. 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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