

# **Material Safety Data Sheet**

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# Section 1 - Product and Company Information

**Product Name Product Number** Brand

Fax:

3,4-Dimethylphenol, 99% D175404 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

Emergency Phone:

414 273 3850 Ext. 5996

# Section 2 - Composition/Information on Ingredient

Annex I Index **SARA 313** EC no Substance Name CAS# Number 202-439-5 604-006-00-X 95-65-8 3.4-DIMETHYLPHENOL

Formula

Synonyms

C8H10O

3,4-Dimethylphenol, 4,5-Dimethylphenol, Phenol, 3,4-dimethyl- (9Cl), 1,3,4-Xylenol

### Section 3 - Hazards Identification

#### **Emergency Overview**

Corrosive:

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

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:

110 °C

Autoignition Temp:

N/A

230 °F

**Extinguishing Media** 

Suitable

Water spray, Carbon dioxide, dry chemical powder, or appropriate foam,

Fireflghting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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

Sultable

Keep tightly closed. 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 (B-inch minimum).

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Page 2

### General Hygiene Measures

Wash thoroughly after handling. Discard contaminated clothing and shoes,

### Section 9 - Physical/Chemical Properties

#### Appearance

Color

Form Crystals

760 mmHg

At Temperature or Pressure

Faintly brown

Molecular Weight:

122<sub>-</sub>17 AMU

Property Value N/A 227 °C **BP/BP Range** MP/MP Range 63 °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

> Method: closed cup Method: closed cup

Flammability N/A **Autoignition Temp** N/A Solubility N/A

N/A = not available

Decomposition Temp.

Flash Point °F

Flash Point °C

**Explosion Limits** 

### Section 10 - Stability and Reactivity

N/A

N/A

230 °F

110 °C

# 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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Page 3

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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: ZE6300000

#### **Toxicity Data**

Oral - Rat: 727 mg/kg (LD50)

Intraperitoneal - Rat: 200 MG/KG (LD50)

Remarks: Behavioral:Somnolence (general depressed activity) Kidney, Ureter, Bladder:Other changes in urine composition. Skin and Appendages: Other: Hair.

Oral - Mouse: 400 mg/kg (LD50) Remarks: Behavioral:Ataxia

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

Intraperitoneal - Mouse: 50 MG/KG (LD50)

Remarks: Behavioral:Somnolence (general depressed activity)

Behavioral: Ataxia.

Skin and Appendages: Other: Hair.

Oral - Rabbit: 800 mg/kg (LD50) Remarks: Behavioral: Ataxia.

Behavioral: Muscle contraction or spasticity.

Lungs, Thorax, or Respiration: Dyspnea.

### Chronic Exposure - Carcinogen

Mouse - Skin: 4000 MG/KG 20W |

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

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

DOT

Proper Shipping Name: Xylenols

UN#: 2261

Class: 6.1

Packing Group: Packing Group II Hazard Label: Toxic substances

PIH: Not PIH

Proper Shipping Name: Xylenois IATA UN Number: 2261

Hazard Class: 6.1

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Page 4

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Packing Group: II

### Section 15 - Regulatory Information

#### EU Directives 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

Corrosive

**Risk Statements** 

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

Safety Statements

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Take off immediately all contaminated clothing. Wear suitable protective clothing, gloves, and eye/face protection. **US Statements** 

Readily absorbed through skin.

#### 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 CPR.

DSL: Yes

NDSL: No

### Section 16 - Other Information

### Disclalmer

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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Page 5

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, 411	197		