

**Material Safety Data Sheet**

Version 3.0  
Revision Date 08/24/2008  
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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 2,3,6-Trimethylphenol

Product Number : T78700  
Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +18003255832  
Fax : +18003255052  
Emergency Phone # : (314) 776-6555

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>9</sub>H<sub>12</sub>O  
Molecular Weight : 136.19 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>2,3,6-Trimethylphenol</b>			
2416-94-6	219-330-3	-	-

**3. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Irritant

**HMIS Classification****Health Hazard:** 2**Flammability:** 1**Physical hazards:** 0**NFPA Rating****Health Hazard:** 2**Fire:** 1**Reactivity Hazard:** 0**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

**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. 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. FIRE-FIGHTING MEASURES****Flammable properties**

Flash point 100.00 °C (212.00 °F)

Ignition temperature 405 °C (761 °F)

**Suitable extinguishing media**

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

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**Environmental precautions**

Do not let product enter drains.

**Methods for cleaning up**

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**

Keep container tightly closed in a dry and well-ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves.

**Eye protection**

Safety glasses

**Skin and body protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form crystalline

Colour light yellow

**Safety data**

pH no data available

Melting point 59 - 62 °C (138 - 144 °F)

Boiling point 215 °C (419 °F) at 1,013 hPa (760 mmHg)

Flash point 100.00 °C (212.00 °F)

Ignition temperature 405 °C (761 °F)

Lower explosion limit 1.5 %(V)

Upper explosion limit 7.7 %(V)

Vapour pressure 2.0 hPa (1.5 mmHg) at 50 °C (122 °F)  
< 0.011 hPa (< 0.008 mmHg) at 20 °C (68 °F)

Density 0.940 g/cm<sup>3</sup> at 100 °C (212 °F)

Water solubility insoluble

Partition coefficient: log Pow: 2.72  
n-octanol/water

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

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

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - > 2,000 mg/kg

**Irritation and corrosion**

Skin - rabbit - Skin irritation

Eyes - rabbit - Severe eye irritation

#### **Sensitisation**

no data available

#### **Chronic exposure**

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.

#### **Potential Health Effects**

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

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## **12. ECOLOGICAL INFORMATION**

#### **Elimination information (persistence and degradability)**

Biodegradability	Biotic/Aerobic Result: > 70 % - Readily biodegradable.
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#### **Ecotoxicity effects**

Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - 10 - 22 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.	EC50 - Daphnia magna (Water flea) - 9.15 mg/l - 48 h

#### **Further information on ecology**

no data available

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## **13. DISPOSAL CONSIDERATIONS**

#### **Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### **Contaminated packaging**

Dispose of as unused product.

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## **14. TRANSPORT INFORMATION**

#### **DOT (US)**

UN-Number: 2430	Class: 8	Packing group: III
Proper shipping name: Alkylphenols, solid, n.o.s.		
Marine pollutant: No		
Poison Inhalation Hazard: No		

**IMDG**

UN-Number: 2430 Class: 8 Packing group: III EMS-No: F-A, S-B  
Proper shipping name: ALKYLPHENOLS, SOLID, N.O.S.  
Marine pollutant: No

**IATA**

UN-Number: 2430 Class: 8 Packing group: III  
Proper shipping name: Alkylphenols, solid n.o.s.

**15. REGULATORY INFORMATION****OSHA Hazards**

Irritant

**DSL Status**

All components of this product are on the Canadian DSL list.

**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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**California Prop. 65 Components**

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

**16. OTHER INFORMATION****Further information**

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