

**Material Safety Data Sheet**

Version 3.0  
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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : *m*-Cresol

Product Number : C85735  
Brand : Sigma-Aldrich

Company : Sigma-Aldrich Canada, Ltd  
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OAKVILLE ON L6H 6J8  
CANADA

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : 3-Methylphenol

Formula : C<sub>7</sub>H<sub>8</sub>O

Molecular Weight : 108.14 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>m-Cresol</b>			
108-39-4	203-577-9	604-004-00-9	-

**3. HAZARDS IDENTIFICATION****Emergency Overview****Target Organs**

Central nervous system, Lungs, Liver, Kidney, Eyes

**WHMIS Classification**

B3 Combustible Liquid  
D1A  
D2B  
E

Combustible Liquid  
Highly Toxic  
Moderate eye irritant  
Corrosive

**HMIS Classification**

Health Hazard: 3  
Chronic Health Hazard: \*  
Flammability: 2  
Physical hazards: 0

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Material is extremely destructive to the tissue of the

**Skin**  
**Eyes**  
**Ingestion**

mucous membranes and upper respiratory tract.  
May be harmful if absorbed through skin. Causes skin burns.  
Causes eye burns.  
Toxic if swallowed. Causes burns.

#### 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**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

**Flammable properties**

Flash point                      86 °C (187 °F) - closed cup

Ignition temperature      558 °C (1,036 °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 breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods for cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

**Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
m-Cresol	108-39-4	TWA	5 ppm 22 mg/m3	2004-04-30	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Substance may be readily absorbed through intact skin				
		TWA	5 ppm 22 mg/m3	2000-01-12	Canada. Quebec OELs
	Skin (percutaneous)				
		TWA	10 mg/m3	2004-08-01	Canada. British Columbia OEL
	Contributes significantly to the overall exposure by the skin route.				

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air 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

Tightly fitting safety goggles. Faceshield (8-inch minimum).

#### Skin and body protection

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

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

### Safety data

pH no data available

Melting point 8 - 10 °C (46 - 50 °F) - lit.

Boiling point 203 °C (397 °F) - lit.

Flash point 86 °C (187 °F) - closed cup

Ignition temperature 558 °C (1,036 °F)

Lower explosion limit 1.06 %(V)

Upper explosion limit	1.35 %(V)
Vapour pressure	< 1 hPa (< 1 mmHg) at 20 °C (68 °F)
Density	1.034 g/mL at 25 °C (77 °F)
Water solubility	no data available
Relative vapour density	3.73 - (Air = 1.0)

## 10. STABILITY AND REACTIVITY

### Storage stability

Stable under recommended storage conditions.

### Materials to avoid

Oxidizing agents, Bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

LD50 Oral - rat - 242 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Convulsions or effect on seizure threshold. Gastrointestinal:Peritonitis.

LD50 Dermal - rabbit - 2,050 mg/kg

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Behavioral:Convulsions or effect on seizure threshold. Gastrointestinal:Changes in structure or function of salivary glands.

### Irritation and corrosion

Skin - rabbit - Severe skin irritation - 24 h

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.

### Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin burns.
<b>Eyes</b>	Causes eye burns.
<b>Ingestion</b>	Toxic if swallowed. Causes burns.
<b>Target Organs</b>	Central nervous system, Lungs, Liver, Kidney, Eyes,

### Additional Information

RTECS: GO6125000

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

Biodegradability      Biotic/Aerobic

Biotic/Aerobic

Bioaccumulation      Leuciscus idus (Golden orfe) - 3 d  
Bioconcentration factor (BCF): 17

Leuciscus idus (Golden orfe) -  
Bioconcentration factor (BCF): 20

### Ecotoxicity effects

Toxicity to fish      LC50 - Oncorhynchus mykiss (rainbow trout) - 8.9 mg/l - 96 h

Toxicity to daphnia  
and other aquatic  
invertebrates.      LC50 - Daphnia magna (Water flea) - 18.8 mg/l - 48 h

EC50 - Daphnia magna (Water flea) - 25 mg/l - 24 h

### Further information on ecology

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. 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.

## 14. TRANSPORT INFORMATION

### DOT (US)

UN-Number: 2076    Class: 6.1 (8)      Packing group: II

Proper shipping name: Cresols, liquid

Marine pollutant: No

Poison Inhalation Hazard: No

### IMDG

UN-Number: 2076    Class: 6.1 (8)      Packing group: II

EMS-No: F-A, S-B

Proper shipping name: CRESOLS, LIQUID

Marine pollutant: No

### IATA

UN-Number: 2076    Class: 6.1 (8)      Packing group: II

Proper shipping name: Cresols, liquid

## 15. REGULATORY INFORMATION

**DSL Status**

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

**WHMIS Classification**

B3 Combustible Liquid  
D1A  
D2B  
E

Combustible Liquid  
Highly Toxic  
Moderate eye irritant  
Corrosive

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

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