



## Safety Data Sheet

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation:** m-Cresol (meta-Cresol)

**Product Number:** 2-18630

**Other Identifying Product Numbers:** 2-18630-3, 2-18630-5, 2-18630-7

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

**Company:** Reagents Inc.

**Address:** 4746 Sweden Road  
Charlotte, NC 28224 USA

**Telephone:** 800-732-8484

#### 1.4. Emergency Telephone Number (24 hr)

CHEMTREC (USA) 800-424-9300  
CHEMTREC (International) 1+ 703-527-3887

## Safety Data Sheet

### SECTION 2: Hazard(s) Identification

#### 2.1. Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

| Hazard Class                                                         | Category   | Hazard Statement | Precautionary Statements                                                                                  |
|----------------------------------------------------------------------|------------|------------------|-----------------------------------------------------------------------------------------------------------|
| Acute Toxicity - Oral                                                | Category 3 | H301             | P264, P270, P301+P310, P321, P330, P405, P501                                                             |
| Acute Toxicity - Dermal                                              | Category 3 | H311             | P280, P302+P352, P312, P321, P361, P405, P501                                                             |
| Acute Toxicity - Inhalation                                          | Category 2 | H330             | P260, P271, P285, P304+P340, P310, P320, P403+P233, P405, P501                                            |
| Skin Corrosion / Irritation                                          | Category 1 | H314             | P260, P264, P280, P301+P330+P331, P303+P361+P353, P363, P304+P340, P310, P321, P305+P351+P338, P405, P501 |
| Eye Damage / Irritation                                              | Category 1 | H318             | P280, P305+P351+P338, P310                                                                                |
| Reproductive Toxicity                                                | Category 2 | H361             | P201, P202, P280, P308+P313, P405, P501                                                                   |
| Specific Target Organs/Systemic Toxicity Following Single Exposure   | Category 1 | H370             | P260, P264, P270, P307+P311, P321, P405, P501                                                             |
| Specific Target Organs/Systemic Toxicity Following Repeated Exposure | Category 2 | H373             | P260, P314, P501                                                                                          |
| Flammable Liquids                                                    | Category 4 | H227             | P210, P280, P370+P378, P403+P235, P501                                                                    |
| Hazardous to the Aquatic Environment (Acute)                         | Category 1 | H400             | P273, P501                                                                                                |
| Hazardous to the Aquatic Environment (Chronic)                       | Category 3 | H402             | P273, P501                                                                                                |

#### 2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

## Safety Data Sheet

### Hazard Statements:

| Hazard Number | Hazard Statement                                                   |
|---------------|--------------------------------------------------------------------|
| H227          | Combustible liquid.                                                |
| H301          | Toxic if swallowed.                                                |
| H311          | Toxic in contact with skin.                                        |
| H314          | Causes severe skin burns and eye damage.                           |
| H318          | Causes serious eye damage.                                         |
| H330          | Fatal if inhaled.                                                  |
| H361          | Suspected of damaging fertility or the unborn child.               |
| H370          | Causes damage to organs.                                           |
| H373          | May cause damage to organs through prolonged or repeated exposure. |
| H400          | Very toxic to aquatic life.                                        |
| H402          | Harmful to aquatic life.                                           |

## Safety Data Sheet

### Precautionary Statements:

| Precautionary Number | Precautionary Statement                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P201                 | Obtain special instructions before use.                                                                                          |
| P202                 | Do not handle until all safety precautions have been read and understood.                                                        |
| P210                 | Keep away from heat, sparks and open flame. No smoking.                                                                          |
| P260                 | Do not breathe dust, fumes or mist.                                                                                              |
| P264                 | Wash arms, hands and face thoroughly after handling.                                                                             |
| P270                 | Do not eat, drink or smoke when using this product.                                                                              |
| P271                 | Use only outdoors or in a well-ventilated area.                                                                                  |
| P273                 | Avoid release to the environment.                                                                                                |
| P280                 | Wear protective gloves and eye protection.                                                                                       |
| P285                 | In case of inadequate ventilation wear respiratory protection.                                                                   |
| P301+P310            | IF SWALLOWED: Immediately call a POISON CENTER or physician.                                                                     |
| P301+P330+P331       | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.                                                                               |
| P302+P352            | IF ON SKIN: Wash with plenty of soap and water.                                                                                  |
| P303+P361+P353       | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.                                     |
| P304+P340            | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338       | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P307+P311            | IF exposed: Call a POISON CENTER or physician.                                                                                   |
| P308+P313            | IF exposed or concerned: Get medical attention.                                                                                  |
| P310                 | Immediately call a POISON CENTER or physician.                                                                                   |
| P312                 | Call a POISON CENTER or physician if you feel unwell.                                                                            |
| P314                 | Get medical attention if you feel unwell.                                                                                        |
| P320                 | Specific treatment is urgent (Wash areas of contact with water immediately).                                                     |
| P321                 | Specific treatment (Wash areas of contact with water immediately).                                                               |
| P330                 | Rinse mouth.                                                                                                                     |
| P361                 | Take off immediately all contaminated clothing and wash it before reuse.                                                         |
| P363                 | Wash contaminated clothing before reuse.                                                                                         |
| P370+P378            | In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.                                                         |
| P403+P233            | Store in a well-ventilated place. Keep container tightly closed.                                                                 |
| P403+P235            | Store in a well-ventilated place. Keep cool.                                                                                     |
| P405                 | Store locked up.                                                                                                                 |
| P501                 | Dispose of contents in accordance with local, state, federal and international regulations.                                      |

## Safety Data Sheet

### 2.3. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Substance or Mixture

| Chemical Name | Formula                         | Molecular Weight | CAS Number | Weight% |
|---------------|---------------------------------|------------------|------------|---------|
| m-Cresol      | C <sub>7</sub> H <sub>8</sub> O | 108.13 g/mol     | 108-39-4   | 100.00% |

## SECTION 4: First-Aid Measures

### 4.1. General First Aid Information

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

**Ingestion:** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

### 4.2. Most Important Symptoms and Effects, Acute and Delayed

May cause mild irritation to areas of contact.

### 4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water immediately). Specific treatment (Wash areas of contact with water immediately).

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

### 5.2. Specific Hazards Arising from the Substance or Mixture

Combustible liquid. Combustible liquid. Products of combustion include fumes of cresols and other aromatic degradation products.

### 5.3. Special Protective Equipment for Firefighters

Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber, Viton, or Saranex barrier recommended.

## Safety Data Sheet

### SECTION 6: Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

#### 6.2. Cleanup and Containment Methods and Materials

Approach release from upwind. Control runoff and isolate discharged material for proper disposal.

### SECTION 7: Handling and Storage

#### 7.1. Precautions for Safe Handling and Storage Conditions

Store locked up.

### SECTION 8: Exposure Controls / Personal Protection

#### 8.1. Control Parameters

| Chemical Name       | Limit Type | Country | Exposure Limit                                          | Information Source                                                |
|---------------------|------------|---------|---------------------------------------------------------|-------------------------------------------------------------------|
| m-Cresol (108-39-4) | TLV-TWA    | USA     | 20 mg/m <sup>3</sup> TWA (inhalable fraction and vapor) | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) |

#### 8.2. Exposure Controls

**Engineering Controls:** Use only outdoors or in a well-ventilated area.

**Respiratory Protection:** In case of inadequate ventilation wear respiratory protection.

**Skin Protection:** Wear protective gloves and eye protection.

**Eye Protection:** Wear protective gloves and eye protection.

#### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

## Safety Data Sheet

### SECTION 9: Physical and Chemical Properties

#### 9.1. Basic Physical and Chemical Properties

**Appearance:** Colorless to slightly yellow liquid

**Physical State:** Liquid

**Odor:** Phenolic, of coal tar

**Odor Threshold:** 0.00060 Ppm

**pH:** Data not available.

**Melting/Freezing Point:** 11.5°C

**Initial Boiling Point /Range:** Data not available.

**Flash Point:** 86°C

**Evaporation Rate:** Data not available.

**Flammability:** Data not available.

**Flammability/Explosive Limits:** Data not available.

**Vapor Pressure:** 0.13 hPa at 20°C

**Vapor Density:** 3.72

**Relative Density:** Data not available.

**Solubility:** 24 G/L at 25°C

**Partition Coefficient (n-Octanol/Water):** 1.96

**Auto-Ignition Temperature:** Data not available.

**Decomposition Temperature:** Data not available.

**Viscosity:** Data not available.

**Explosive Properties:** Data not available.

**Oxidizing Properties:** Data not available.

### SECTION 10: Stability and Reactivity

#### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

#### 10.2. Possibility of Hazardous Reactions

Data not available.

#### 10.3. Conditions to Avoid and Incompatible Materials

Keep away from heat, sparks and open flame. No smoking.

#### 10.4. Hazardous Decomposition Products

May emit irritating fumes when heated to decomposition.

## Safety Data Sheet

### SECTION 11: Toxicological Information

#### 11.1. Information on Toxicological Effects

##### **Acute Toxicity - Oral Exposure:**

Toxic if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Rinse mouth. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

##### **Acute Toxicity - Dermal Exposure:**

Toxic in contact with skin. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Specific treatment (Wash areas of contact with water immediately). Take off immediately all contaminated clothing and wash it before reuse. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

##### **Acute Toxicity - Inhalation Exposure:**

Fatal if inhaled. Do not breathe dust, fumes or mist. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water immediately). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

##### **Acute Toxicity - Other Information:**

Data not available.

##### **Skin Corrosion and Irritation:**

Causes severe skin burns and eye damage. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

##### **Serious Eye Damage and Irritation:**

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

##### **Respiratory Sensitization:**

Not applicable.

##### **Skin Sensitization:**

Not applicable.

##### **Germ Cell Mutagenicity:**

Not applicable.

##### **Carcinogenicity:**

Not applicable.



## Safety Data Sheet

### **Reproductive Toxicity:**

Suspected of damaging fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

### **Specific Target Organ Toxicity from Single Exposure:**

Causes damage to organs. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water immediately). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

### **Specific Target Organ Toxicity from Repeated Exposure:**

May cause damage to organs through prolonged or repeated exposure. Do not breathe dust, fumes or mist. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

### **Aspiration Hazard:**

Not applicable.

### **Additional Toxicology Information:**

Data not available.

## SECTION 12: Ecological Information

### **12.1. Ecotoxicity**

Very toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations. Harmful to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

### **12.2. Persistence and Degradability**

Data not available.

### **12.3. Bioaccumulative Potential**

Data not available.

### **12.4. Mobility in Soil**

Data not available.

### **12.5. Other Adverse Ecological Effects**

Data not available.

## SECTION 13: Disposal Considerations

### **13.1. Waste Treatment Methods**

Data not available.

## Safety Data Sheet

### SECTION 14: Transportation Information

#### 14.1. Transportation by Land - Department of Transportation (DOT, United States of America)

UN Number: UN2076

Proper Shipping Name: Cresols, liquid

Hazard Class: 6.1 (8)

Packing Group: II

Hazard Placard Labels:



#### 14.2. Transportation by Air - International Air Transport Association (IATA)

UN Number: UN2076

Proper Shipping Name:

Hazard Class:

Packing Group: II

Hazard Placard Labels:

### SECTION 15: Regulatory Information

#### 15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

#### 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Not listed.

#### 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

m-Cresol (CAS # 108-39-4): 100 lb final RQ; 45.4 kg final RQ

#### 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

m-Cresol (CAS # 108-39-4): 1.0 % de minimis concentration

#### 15.5. Massachusetts Right-to-Know Substance List

m-Cresol (CAS # 108-39-4): Present



## Safety Data Sheet

### 15.6. Pennsylvania Right-to-Know Hazardous Substances

m-Cresol (CAS # 108-39-4): Environmental hazard

m-Cresol (CAS # 108-39-4): Present

### 15.7. New Jersey Worker and Community Right-to-Know Components

m-Cresol (CAS # 108-39-4): carcinogen

m-Cresol (CAS # 108-39-4): sn 1161

m-Cresol (CAS # 108-39-4): SN 1161 TPQ: 500 lb

### 15.8. California Proposition 65

Not listed.

### 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

m-Cresol (CAS # 108-39-4): Present

### 15.10. United States of America Toxic Substances Control Act (TSCA) List

m-Cresol (CAS # 108-39-4): Present

### 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Not listed.

## SECTION 16: Other Information

### 16.1. Full Text of Hazard Statements and Precautionary Statements

Combustible liquid. Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled. Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Harmful to aquatic life.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks and open flame. No smoking. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or physician. Get medical attention if you feel unwell. Specific treatment is urgent (Wash areas of contact with water immediately). Wash contaminated clothing before reuse. In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.



## Safety Data Sheet

### 16.2. Miscellaneous Hazard Classes

**Canadian Carcinogenicity Hazard Class:** Not Applicable.

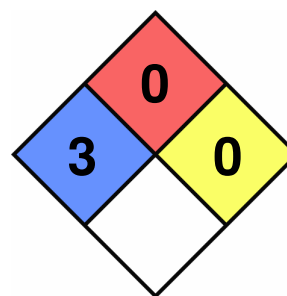
**Physical Hazards Not Otherwise Classified (PHNOC):** Not Applicable.

**Health Hazards Not Otherwise Classified (HHNOC):** Not Applicable.

**Biohazardous Infectious Materials Hazard Class:** Not Applicable.

### 16.3. National Fire Protection Association (NFPA) Rating

**Health:** 3  
**Flammability:** 0  
**Reactivity:** 0  
**Special Hazard:**



### 16.4. Document Revision

**Last Revision Date:** 6/23/2015

### DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and REAGENTS, INC. assumes no legal responsibility or liability whatsoever resulting from its use.