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Revision Date 19-Jun-2015

Version 2

## 1. IDENTIFICATION

**Product identifier**

**Product Name** meta-Cresol

**Other means of identification**

**Product Code** 4500

**UN/ID no.** UN2076

**Synonyms** m-Cresol; m-Cresol practical; phenol, 3-methyl-; 3-hydroxytoluene; meta-Cresylic Acid; 3-Cresol; m-Cresylic Acid

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Laboratory chemicals.

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

Harrell Industries, Inc.  
2495 Commerce Drive  
Rock Hill, SC 29730

[www.harrellindustries.com](http://www.harrellindustries.com)

**Emergency telephone number**

**Company Phone Number** 803-327-6335

**Fax Number** 803-327-7808

**24 Hour Emergency Phone Number** 800 633-8253 (PERS)

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 3
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B

**Label elements**

**Emergency Overview**

**Danger**

**Hazard statements**

Combustible liquid  
H301 - Toxic if swallowed  
H314 - Causes severe skin burns and eye damage  
H401 - Toxic to aquatic life



POISON! DANGER! MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CORROSIVE. CAUSES SEVERE BURNS TO EVERY AREA OF CONTACT. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER, KIDNEYS, PANCREAS AND CARDIOVASCULAR SYSTEM. VAPOR IS IRRITATING TO EYES AND REPSRATORY TRAT. COMBUSTIBLE LIQUID AND VAPOR.

**Appearance** Colorless to yellow

**Physical state** liquid

**Odor** Phenolic odor

#### Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Avoid release to the environment  
 Wear protective gloves/protective clothing/eye protection/face protection

Corrosive. Vapors are irritating and may cause damage to the eyes. Contact may cause severe burns and permanent eye damage.

Corrosive. Causes severe pain followed by numbness. May be absorbed through the skin with systemic poisoning effects to follow. Discoloration and severe burns may occur.

Breathing vapor, dust or mist results in digestive disturbances (vomiting, difficulty in swallowing, diarrhea, loss of appetite). Will irritate, possibly burn respiratory tract. Other symptoms listed under ingestion may also occur.

Poison. Symptoms may include burning pain in mouth and throat, abdominal pain, headache, dizziness, muscular weakness, irregular breathing, weak pulse, lung damage, liver damage, pancreas damage, kidney damage, coma, and possibly death from circulatory or cardiac failure.

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

Not applicable

Unknown acute toxicity

100% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

#### Synonyms

m-Cresol; m-Cresol practical; phenol, 3-methyl-: 3-hydroxytoluene; meta-Cresylic Acid; 3-Cresol; m-Cresylic Acid.

#### Formula

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

Chemical Name	CAS No.	Weight-%
m-Cresol	108-39-4	99.0

### 4. FIRST AID MEASURES

#### Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician if irritation occurs.

<b>Skin contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. If swallowed, wash out mouth with water provided person is conscious. Call a physician. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe 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. For precaution see section 13.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Oxidizing agents. Bases.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
m-Cresol 108-39-4	TWA: 20 mg/m <sup>3</sup> inhalable fraction and vapor S*	-	IDLH: 250 ppm TWA: 2.3 ppm TWA: 10 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Odor</b>	Phenolic odor
<b>Appearance</b>	Colorless to yellow	<b>Odor threshold</b>	No information available
<b>Color</b>	yellow		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	No information available		
<b>Melting point / freezing point</b>	11 - 12 °C / 52 - 54 °F		
<b>Boiling point / boiling range</b>	202 °C / 396 °F		
<b>Flash point</b>	No information available		
<b>Evaporation rate</b>	No information available		
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limit in Air</b>			
<b>Upper flammability limit:</b>	No information available		
<b>Lower flammability limit:</b>	No information available		
<b>Vapor pressure</b>	01528 @ 25C (77F)		
<b>Vapor density</b>	3.72		
<b>Relative density</b>	No information available		
<b>Water solubility</b>	No information available		
<b>Solubility in other solvents</b>	No information available		
<b>Partition coefficient</b>	No information available		
<b>Autoignition temperature</b>	No information available		
<b>Decomposition temperature</b>	No information available		

<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	108-14
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under ordinary conditions of use and storage. Darkens on exposure to air or light.

**Possibility of Hazardous Reactions**

None under normal processing.

<b>Hazardous polymerization</b>	Will not occur.
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**Conditions to avoid**

Heat, flames, ignition sources and incompatibles. light. air.

**Incompatible materials**

Oxidizing agents. Bases.

**Hazardous Decomposition Products**

Carbon dioxide and carbon monoxide may form when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

<b>Product Information</b>	No data available
<b>Inhalation</b>	No data available.
<b>Eye contact</b>	Severely irritating to eyes.
<b>Skin contact</b>	Cause skin burns.
<b>Ingestion</b>	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
m-Cresol 108-39-4	= 242 mg/kg ( Rat )	= 1860 mg/kg ( Rabbit )	> 710 mg/m <sup>3</sup> ( Rat ) 1 h

**Information on toxicological effects**

<b>Symptoms</b>	No information available.
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**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Sensitization****Germ cell mutagenicity****Carcinogenicity****Reproductive toxicity****STOT - single exposure****STOT - repeated exposure****Aspiration hazard**

Numerical measures of toxicity - Product Information**12. ECOLOGICAL INFORMATION**Ecotoxicity

100% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
m-Cresol 108-39-4	-	55.9: 96 h Pimephales promelas mg/L LC50 flow-through 8.9: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 23.12: 96 h Poecilia reticulata mg/L LC50 semi-static 15.9: 96 h Brachydanio rerio mg/L LC50 static 10 - 13.6: 96 h Lepomis macrochirus mg/L LC50	18.8: 48 h Daphnia magna mg/L LC50

Persistence and degradabilityBioaccumulation

Chemical Name	Partition coefficient
m-Cresol 108-39-4	1.96

Other adverse effects No information available**13. DISPOSAL CONSIDERATIONS**Waste treatment methodsDisposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.Contaminated packaging Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
m-Cresol 108-39-4	-	Included in waste stream: F039 Included in waste stream: K060	200.0 mg/L regulatory level	-

**14. TRANSPORT INFORMATION**

DOT Regulated  
 UN/ID no. UN2076  
 Proper shipping name Cresols, Liquid  
 Hazard Class 6.1  
 Subsidiary class (8),  
 Packing Group II  
 Reportable Quantity (RQ) 100 lbs (45.4 kg)

TDG Regulated  
 UN/ID no. UN2076  
 Proper shipping name Cresols, Liquid  
 Hazard Class 6.1  
 Subsidiary class (8),  
 Packing Group II

<b><u>MEX</u></b>	Regulated
UN/ID no.	UN2076
Proper shipping name	Cresols, Liquid
Hazard Class	6.1
Subsidiary class	(8),
Packing Group	II
<b><u>ICAO (air)</u></b>	Regulated
UN/ID no.	UN2076
Proper shipping name	Cresols, Liquid
Hazard Class	6.1
Subsidiary hazard class	(8),
Packing Group	II
<b><u>IATA</u></b>	Regulated
UN/ID no.	UN2076
Proper shipping name	CRESOLS, LIQUID
Hazard Class	6.1
Subsidiary hazard class	(8),
Packing Group	II
<b><u>IMDG</u></b>	Regulated
UN/ID no.	UN2076
Proper shipping name	Cresols, liquid
Hazard Class	6.1
Subsidiary hazard class	(8),
Packing Group	II
<b><u>RID</u></b>	Regulated
UN/ID no.	UN2076
Proper shipping name	Cresols, Liquid
Hazard Class	6.1
Packing Group	II
<b><u>ADR</u></b>	Regulated
UN/ID no.	UN2076
Proper shipping name	Cresols, Liquid
Hazard Class	6.1
Packing Group	II
<b><u>ADN</u></b>	Regulated
UN Number	UN2076
Proper shipping name	Cresols, Liquid
Hazard Class	6.1
Packing Group	II

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
m-Cresol - 108-39-4	1.0

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
m-Cresol 108-39-4	-	-	-	X

**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
m-Cresol 108-39-4	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

**US State Regulations****California Proposition 65****U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
m-Cresol 108-39-4	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>NFPA</b>	Health hazards 3	Flammability 0	Instability 0	Physical and Chemical Properties -
<b>HMIS</b>	Health hazards 3	Flammability 0	Physical hazards 0	Personal protection X

Issue Date 15-Apr-2015

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Revision Note

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet