1. IDENTIFICATION

Product identifier

Product code: C1367
Product Name: M-CRESOL, HIGH PURITY

Other means of identification

Synonyms: 1-Hydroxy-3-methylbenzene; 3-Cresol; 3-Hydroxytoluene; 3-Methylphenol; m-Cresole; m-Cresylic acid; m-Hydroxytoluene; m-Kresol; m-Methylphenol; m-Oxytoluene; m-Toluol; phenol, 3-methyl-; Metacresol

CAS #: 108-39-4
RTECS #: GO6125000
Cl#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

| Acute toxicity - Oral | Category 3 |
| Acute toxicity - Dermal | Category 3 |
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Flammable liquids | Category 4 |
**Danger**

**Hazard statements**
- Toxic if swallowed
- Toxic in contact with skin
- Causes severe skin burns and eye damage
- May cause an allergic skin reaction
- May cause respiratory irritation
- May cause damage to organs through prolonged or repeated exposure
- Combustible liquid

**Precautionary Statements - Prevention**
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wear protective gloves/protective clothing/eye protection/face protection
- Contaminated work clothing must not be allowed out of the workplace
- Use only outdoors or in a well-ventilated area
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Keep cool

**Precautionary Statements - Response**
- Immediately call a POISON CENTER or doctor/physician
- In case of fire: Use CO2, dry chemical, or foam to extinguish.
- 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 doctor/physician.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth
- Do NOT induce vomiting

**Precautionary Statements - Storage**
- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**
- Dispose of contents/container to an approved waste disposal plant

**Product code:** C1367  
**Product name:** M-CRESOL, HIGH PURITY
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms
Severe skin and eye irritation or burns
Characteristic odor of phenol on the breath
May cause gastrointestinal (digestive) tract burns
Can burn mouth, throat, and stomach
Abdominal pain
May cause diarrhea
May cause nausea and headache
Pallor
Sweating
May cause methemoglobinemia and cyanosis
Shallow respiration
Dyspnea (Shortness of breath and difficulty breathing)
Coughing and wheezing
May cause build-up of fluid in the lungs (pulmonary edema)
May cause inflammation of the lungs (pneumonitis)
May cause central nervous system effects
May affect the liver
It may affect the kidneys
May affect the cardiovascular system
May cause allergic contact dermatitis

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Product code: C1367  Product name: M-CRESOL, HIGH PURITY
Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

Specific hazards arising from the chemical
Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide.
Specific hazards: Combustible material. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated.

Special Protective Actions for Firefighters
Specific Methods: Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment 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: Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up
Methods for containment: Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up: Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Product code: C1367  Product name: M-CRESOL, HIGH PURITY
Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Hygroscopic. Protect from moisture. Protect from light. Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:
Strong oxidizing agents
Acids
Bases
Aluminum
aluminum alloys
Copper alloys
Copper

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>None</td>
<td>2.3 ppm TWA</td>
<td>20 mg/m³ TWA inhalable fraction and vapor</td>
<td>None</td>
</tr>
</tbody>
</table>

Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada - Alberta</th>
<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>5 ppm TWA</td>
<td>10 mg/m³ TWA</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Product code: C1367  Product name: M-CRESOL, HIGH PURITY
Personal Protective Equipment

Eye protection: Goggles  Face-shield
Skin and body protection: Chemical resistant protective suit
Gloves
Boots
Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state: Liquid</th>
<th>Appearance: No information available.</th>
<th>Color: Colorless to pale yellow.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular/Formula weight: 108.14</td>
<td>Flammability: No information available</td>
<td>Flash point (°C): 86</td>
</tr>
<tr>
<td>Flashpoint (°C/°F): 86°C/186.8°F</td>
<td>Flash Point Tested according to: Not available</td>
<td>Autoignition Temperature (°C/°F): 558°C/1036.4°F</td>
</tr>
<tr>
<td>Lower Explosion Limit (%): 1.1%</td>
<td>Upper Explosion Limit (%): No information available</td>
<td>Melting point/range(°C/°F): 11.5°C/52.7°F</td>
</tr>
<tr>
<td>Decomposition temperature(°C/°F): No information available</td>
<td>Boiling point/range(°C/°F): 202°C/395.6°F</td>
<td>Bulk density: No information available</td>
</tr>
<tr>
<td>Density (g/cm3): No information available</td>
<td>Specific gravity: 1.034 @ 20°C</td>
<td>pH: No information available</td>
</tr>
<tr>
<td>Vapor pressure @ 20°C (kPa): 0.0147 kPa @ 25°C</td>
<td>Evaporation rate: No information available</td>
<td>Vapor density: 3.72</td>
</tr>
<tr>
<td>VOC content (g/L): No information available</td>
<td>Odor threshold (ppm): No information available</td>
<td>Partition coefficient (n-octanol/water): 1.96</td>
</tr>
<tr>
<td>Viscosity: No information available</td>
<td>Miscibility: Miscible in Chloroform Miscible with alcohol Miscible with Ether Miscible with Acetone</td>
<td>Solubility: Partially soluble in water Solubility in water: 22700 mg/L @ 25°C</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity: No information available

Chemical stability

Stability: Stable under recommended storage conditions. Hygroscopic. Sensitive to light. Exposure
Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Incompatible Materials: Strong oxidizing agents
Acids
Bases
Aluminum
aluminum alloys
Copper alloys
Copper

Hazardous decomposition products: No information available.

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

m-Cresol
CAS-No. 108-39-4

LD50/oral/rat = 242 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rabbit = 1860 mg/kg Dermal LD50 Rabbit (LOLI; EU Commission IUCLID dataset)
620 mg/kg (RTECS)
2050-2830 mg/kg (EU Commission IUCLID dataset)
LD50/dermal/rat = No information available
LC50/inhalation/rat = >710 mg/m³ Inhalation LC50 Rat 1 h
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat = VALUE- Acute Tox Oral = 242 mg/kg
LD50/oral/mouse = Value - Acute Tox Oral = No information available
LD50/dermal/rabbit
VALUE-Acute Tox Dermal = 620 mg/kg
LD50/dermal/rat
VALUE - Acute Tox Dermal = 1100 mg/kg

LC50/inhalation/rat
VALUE - Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = >710 mg/m³ (1-hr)

LC50/Inhalation/mouse
VALUE - Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes severe irritation and burns. Skin contact with cresols has resulted in skin blanching, skin peeling, blistering, tingling and burning sensation, erythema (skin reddening), localized anesthesia (numbness), and occasionally, ochronosis, a darkening of the skin. It is also absorbed through the skin. When absorbed through the skin it can cause central nervous system effects (somnolence, tetany, tremors, convulsions/seizures, sedation) and produce systemic effects such facial peripheral neuritis, methemoglobinemia, pulmonary edema, damage to internal organs, including loss of kidney function and necrosis of the liver and kidneys, lungs, pancreas, spleen, heart. Serious or even fatal poisoning may result if large areas of the skin are wet with cresol and it is not removed immediately. Hypersensitivity may also occur.

Eye Contact: Severe eye irritation. Causes eye burns.

Inhalation
Irritating to respiratory system. It is extremely destructive to the tissue of the mucous membrane and upper respiratory tract. Inhalation may result in spasm, inflammation, and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea.

Ingestion
Irritating to mouth, throat and stomach. Corrosive to the mouth, throat, and stomach. Causes digestive or gastrointestinal tract burns. Can cause burning pain in mouth and throat. White necrotic lesions in mouth, esophagus, and stomach, headache, nausea, vomiting, abdominal pain, peritonitis, nausea, vomiting, bloody diarrhea, dyspnea, pallor, sweating, central nervous system disturbances (somnolence, convulsions, headache, dizziness), tinnitus. Acute ingestion may lead to shock with cardiovascular disturbances (weak irregular pulse, tachycardia, hypotension), dyspnea, shallow respirations, cyanosis, pallor, profound fall in body temperature, possible fleeting excitement and confusion followed by unconsciousness. Other symptoms of acute ingestion may include stentorous breathing, mucous rales, rhonchi, salivation or frothing at nose and mouth and other signs of pulmonary edema, characteristic odor of phenol on the breath, impairment of kidney function (renal necrosis, nephritis, acute renal failure with scanty, dark-colored urine (oliguria, anuria), hematuria), moderately severe renal insufficiency), impairment of liver function, Methemoglobinemia, Heinz body hemolytic anemia, hyperbilirubinemia. Death from respiratory, circulatory or cardiac failure may occur.

Aspiration hazard
No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
Prolonged or repeated exposure by ingestion, skin absorption, or inhalation may cause kidney and liver damage, weight loss and may also affect the skin,

Product code: C1367  Product name: M-CRESOL, HIGH PURITY
Symptoms may include vertigo, fainting, fatigue, insomnia, nervousness, tremors, mental disturbances, headache, cough, muscle aches and pain, difficulty swallowing, excess salivation, diarrhea, nausea, vomiting, lack of appetite or anorexia, pallor, partial paralysis, ochronosis, albuminuria, and dark urine, hepatitis, fatty liver degeneration. Prolonged or repeated inhalation may also cause hypertension. Prolonged skin contact may cause allergic dermatitis.

**Sensitization:**
May cause sensitization by skin contact.

**Mutagenic Effects:**
May affect genetic material based on animal test data
No human data found

**Carcinogenic effects:**
Not classifiable as a human carcinogen.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>Not listed</td>
<td>A4 Not Classifiable as a Human Carcinogen</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**ACGIH (American Conference of Governmental Industrial Hygienists)**

**IARC (International Agency for Research on Cancer)**

**NTP (National Toxicology Program)**

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

**Reproductive toxicity**
No data is available

**Reproductive Effects:**
No information on reproductive toxicity effects on humans was found
Reproductive effects of cresols administered to rats and mice in diet were limited to mild to moderate uterine atrophy and lengthening of estrus cycle at the highest dose levels tested (>2000 mg/kg/day). No adverse effects on sperm motility or concentration were observed.

**Developmental Effects:**
No information on developmental toxicity effects on humans was found
Developmental studies that treated rats and rabbits by oral gavage during gestation observed fetal effects (skeletal variations and delayed ossification) at dose levels that also cause maternal toxicity.

**Teratogenic Effects:**
No information available

**Specific Target Organ Toxicity**

**STOT - single exposure**
lungs. Respiratory system.

**STOT - repeated exposure**
May cause damage to organs through prolonged or repeated exposure.

**Target Organs:**

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:**
Aquatic environment.

**m-Cresol - 108-39-4**

**Freshwater Fish Species Data:**
55.9 mg/L LC50 Pimephales promelas 96 h flow-through 1 8.9 mg/L LC50
Onchorhynchus mykiss 96 h flow-through 1 23.12 mg/L LC50 Poecilia reticulata 96 h semi-static 1 15.9 mg/L LC50 Brachydanio rerio 96 h static 1 10 - 13.6 mg/L LC50 Lepomis macrochirus 96 h 1

Water Flea Data: 18.8 mg/L LC50 Daphnia magna 48 h

Persistence and degradability: Readily biodegradable

Bioaccumulative potential: Potential for bioconcentration in aquatic organisms is low.

Mobility: No information available.

### 13. DISPOSAL CONSIDERATIONS

**Disposal Methods**

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### 14. TRANSPORT INFORMATION

**DOT**

<table>
<thead>
<tr>
<th>UN-No:</th>
<th>Not Regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Cresols, liquid</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary Class</td>
<td>No information available</td>
</tr>
<tr>
<td>Packing group:</td>
<td>No information available</td>
</tr>
<tr>
<td>Emergency Response Guide Number</td>
<td>No information available</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>No data available</td>
</tr>
<tr>
<td>DOT RQ (lbs):</td>
<td>100 lbs./45.4 kg</td>
</tr>
<tr>
<td>Special Provisions</td>
<td>No Information available</td>
</tr>
<tr>
<td>Symbol(s):</td>
<td>[DOT]: (R3) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 100 pounds (45.4 Kilograms).</td>
</tr>
<tr>
<td>Description:</td>
<td>UN2076,Cresols, liquid ,6.1,(8),PG II</td>
</tr>
</tbody>
</table>

**TDG (Canada)**

<table>
<thead>
<tr>
<th>UN-No:</th>
<th>UN2076</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Cresols, liquid</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
</tr>
<tr>
<td>Subsidiary Risk:</td>
<td>(8)</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>II</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>No Information available</td>
</tr>
<tr>
<td>Description:</td>
<td>UN2076,CRESOLS, LIQUID,6.1(8),PG II</td>
</tr>
</tbody>
</table>

**ADR**

<table>
<thead>
<tr>
<th>UN-No:</th>
<th>UN2076</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>Cresols, liquid</td>
</tr>
<tr>
<td>Hazard Class:</td>
<td>6.1</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>II</td>
</tr>
<tr>
<td>Subsidiary Risk:</td>
<td>8</td>
</tr>
</tbody>
</table>

Product code: C1367  Product name: M-CRESOL, HIGH PURITY
Description: UN2076 Cresols, liquid, 6.1(8), II

**IMO / IMDG**
- **UN-No:** UN2076
- **Proper Shipping Name:** Cresols, liquid
- **Hazard Class:** 6.1
- **Subsidiary Risk:** 8
- **Packing Group:** II
- **Marine Pollutant** No information available
- **EMS:** F-A

**RID**
- **UN-No:** UN2076
- **Proper Shipping Name:** Cresols, liquid
- **Hazard Class:** 6.1
- **Subsidiary Risk:** 8
- **Packing Group:** II
- **Description:** UN2076 Cresols, liquid, 6.1(8), II

**ICAO**
- **UN-No:** UN2076
- **Proper Shipping Name:** Cresols, liquid
- **Hazard Class:** 6.1
- **Subsidiary Risk:** 8
- **Packing Group:** II
- **Description:** UN2076, Cresols, liquid, 6.1(8), PG II

**IATA**
- **UN-No:** UN2076
- **Proper Shipping Name:** Cresols, liquid
- **Hazard Class:** 6.1
- **Subsidiary Risk:** 8
- **Packing Group:** II
- **ERG Code:** 6C
- **Special Provisions** No information available
- **Description:** UN2076, Cresols, liquid, 6.1(8), PG II

---

### 15. REGULATORY INFORMATION

**International Inventories**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
</table>

**U.S. Regulations**

- **m-Cresol**
  - **Massachusetts RTK:** Present
  - **New Jersey RTK Hazardous Substance List:** 1161
  - **New Jersey (EHS) List:** 1161 500 lb TPQ
  - **New Jersey - Discharge Prevention - List of Hazardous Substances:** Present
  - **Pennsylvania RTK:** Environmental hazard
  - **Pennsylvania RTK - Environmental Hazard List**: Present
  - **New York Release Reporting - List of Hazardous Substances:**
    - 1000 lb RQ
    - 1 lb RQ
  - **Louisiana Reportable Quantity List for Pollutants:** 100 lb final RQ
    - 45.4 kg final RQ

**Product code:** C1367  **Product name:** M-CRESOL, HIGH PURITY
California Directors List of Hazardous Substances: Present
FDA - 21 CFR - Total Food Additives 175.300, 177.2410


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>100 lb final RQ 45.4 kg final RQ</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>1.0 % de minimis concentration</td>
</tr>
</tbody>
</table>

U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification Information:

Component: m-Cresol
CAS-No.: 108-39-4 (100)

WHIMIS 2015 Hazard Classification
- Flammable liquids - Category 4: H227 Combustible liquid.
- Acute toxicity - Oral - Category 3: H301 Toxic if swallowed.
- Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.

Canada Hazardous Products Regulation
This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHIMIS 1988 Hazard Class
- B3 Combustible liquid
- D1A Very toxic materials
- E Corrosive material

Components: m-Cresol

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Product code: C1367
Product name: M-CRESOL, HIGH PURITY
### Components

<table>
<thead>
<tr>
<th>WHMIS Ingredient Disclosure List - m-Cresol</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 %</td>
</tr>
</tbody>
</table>

### Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CEPA Schedule I - Toxic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

### EU Classification

#### EU GHS - SV - CLP 1272/2008

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>Acute toxicity - Oral - Acute Tox. 3: H301 Toxic if swallowed. (Minimum classification); Acute toxicity - Dermal - Acute Tox. 3: H311 Toxic in contact with skin. (Minimum classification); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage.604-004-00-9</td>
</tr>
</tbody>
</table>

#### EU - CLP (1272/2008)

**R-phrase(s)**

R34 - Causes burns.
R24/25 - Toxic in contact with skin and if swallowed.

**S-phrase(s)**

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 1/2 - Keep locked up and out of the reach of children.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

### EU Indication of danger:

**T** - Toxic
**C** - Corrosive.

---

**Product code:** C1367  
**Product name:** M-CRESOL, HIGH PURITY
Preparation Date: 3/24/2015
Revision Date: 7/9/2018
Prepared by: Sonia Owen

Disclaimer:
All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet