Material Safety Data Sheet

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FOR CHEMICAL EMERGENCY: CALL INFOTRAC 1-800-535-5053 24 Hrs. per day, 7 days per week

Date Revised: June 20, 2005

1. **Chemical Identification**
   Common Name: Formo Cresol
   Ref #: 10601 (1 oz)
2. **Composition/Information on Ingredients**
   m-Cresol CAS # 108-39-4 Percent: 60 %
   p-Cresol CAS # 106-44-5 Percent: 40 %
   with a combined Cresol content of < 50 %
   Formaldehyde, 37 % CAS # 50-00-0 Percent: < 50 %
3. **Hazards Identification**
   Emergency Overview: Extremely corrosive to body tissues. May be fatal if absorbed through skin or if swallowed. Harmful if inhaled. Overexposure requires first aid and medical follow up. Combustible.
   Acute Overexposure: Swallowing this material causes intense burning of the mouth and throat, followed by abdominal pain and nausea; these effects may be delayed. This material penetrates intact skin rapidly as a liquid or vapor, producing burns and dermatitis. The local effects of this material on the skin and mucous membranes are those on skin discoloration, becoming anesthetized, followed by progressive itching, pain and tissue destruction. Eye contact produces severe corneal damage. Acute exposures by all routes of absorption may cause muscular weakness, gastric disturbances, severe depression, shock, collapse, and death. Although the effects are primarily on the central nervous system, edema of the lungs and injury to the kidneys, liver, heart, pancreas and spleen may also occur.
   Chronic Overexposure: Repeated exposure may result in digestive disturbance, lung damage, damage to the liver and kidneys, and skin eruptions. Some individuals may be hypersensitive to this material.
4. **First Aid Measures**
   Eye Contact: Immediately flush the eyes with plenty of running water, including under the eyelids, for at least 15 minutes.
   Skin Contact: After contact with skin, remove contaminated clothing quickly and carefully to avoid additional skin contact. Wash immediately with plenty of water. Apply PEG/EtOH solution liberally to affected area. Allow to remain 15 to 30 seconds, then wash with water. Continue cycle of water – PEG/EtOH solution for at least 15 minutes. (PEG/EtOH solution consists of 2 parts polyethylene glycol 400 to 1 part ethanol. For external use only.) Finish decontamination with thorough washing using soap and water. Seek medical attention.
   Ingestion: Quickly give 3 or more glasses of milk or water to drink.
   Inhalation: Remove to fresh air. Have qualified person restore and/or support breathing with oxygen, if needed. Keep warm.
5. **Fire Fighting Measures**
   Special Fire Fighting Procedures: Evacuate spill area of all unnecessary personnel. Stop source of fuel, if possible. Use NIOSH/MSHA approved self-contained breathing apparatus and protective clothing sufficient to prevent contact of liquid or smoke with skin. Use water fog or spray to cool exposed equipment. Use foam to control spill fire. Avoid contact with runoff water.
6. **Accidental Release Measures**
   Use foam to control vapors. Flush area with water sparingly or use absorbents to contain and/or remove spill. Neutralize with ammonia or complex with sodium sulfite.
7. **Handling and Storage**
   Storage: Store containers in cool, well-ventilated areas away from ignition sources. Avoid use of aluminum, copper and brass alloys in contact with this material in storage and process equipment.
   Handling: Avoid contact with eyes, skin or clothing. Avoid breathing vapors, mists or spray. Do not take internally. Use with adequate ventilation. Use respiratory protection when overexposed to vapors, mists or spray if possible. When handling, wear chemical splash goggles, face shield, heavy PVC or butyl/viton gloves and protective clothing.
8. **Exposure Controls/Personal Protection**
   Engineering Controls: Use adequate ventilation to control exposure to below recommended levels.
   Respiratory Protection: Use NIOSH/MSHA approved air-purifying respirator equipped with organic vapor cartridge when concentrations exceeds recommended exposure levels. In case of spill or leak resulting in unknown concentration, use NIOSH/MSHA approved air-supplied respirator.
   Skin Protection: Wear chemical resistant gloves when handling this material. Heavy PVC or butyl –viton is recommended. Gloves may be decontaminated by washing with soap and water.
   Eye Protection: Wear chemical safety goggles and a full-face shield to protect against splashing.
   Protective Clothing: Impervious protective clothing and chemically resistant footwear should be worn to minimize contact.

9. Physical and Chemical Properties

Appearance & Odor: Clear amber liquid with a strong odor of formaldehyde and phenol.
Solubility in Water: Miscible
pH (@ 25 C): 4.05
Boiling Point (º F): 392
Evaporation Rate (Butyl acetate = 1): 0.3
Vapor Pressure (mm Hg @ 48 C): 1.0
Specific Gravity (H_2O = 1): 1.058 @ 25 C
Percent Volatile: 38 % v/v

10. Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide are formed when materials burns
Conditions to Avoid: Strong oxidizing agents

11. Toxicological Information:

Cresol: Eyes & skin – Severe eye & skin irritant. Causes chemical burns and dermatitis upon prolonged or repeated exposure.

Acute Toxicity (m-Cresol)

LD50 oral, rat: approximately 242 mg/kg
LD50 dermal, rabbit: approximately 1150 mg/kg

Acute Toxicity (p-Cresol)

LD50 oral, rat: approximately 207 mg/kg
LD50 dermal, rabbit: approximately 301 mg/kg

Formaldehyde:

LD50 Oral, rat: 800 mg/kg
LCL0 Inhalation, rat: 250 ppm/4H
LD50 Dermal, rabbit: 270 mg/kg

12. Ecological Information

The aquatic toxicity of this material has not been determined. Therefore, avoid discharge to all bodies of water. The components of this product do show biodegradability in low concentrations.

13. Disposal Considerations:

The materials resulting from clean-up operations of a spill may be hazardous and, therefore, subject to specific regulations. Package, store, transport and dispose of all clean-up materials and any contaminated equipment in accordance with all applicable federal, state and local regulations. Shipments of waste materials may be subject to manifesting requirements per applicable regulations. Appropriate disposal will depend on the nature of the waste and should be performed by competent and properly permitted contractors. Ensure that all responsible federal, state and local agencies receive proper notification of spill and disposal methods.

14. Transit Information

Domestic air / ground:

Proper Shipping Name: N/A
Hazard Class: 6.1
Subsidiary Hazard Class: 8
Remarks: Qualifies for 49 CFR 173.4 small quantity exceptions. Each bottle is wrapped in cushioning/absorbent material within cardboard box.

Ocean:

Proper Shipping Name: Toxic Liquid, Corrosive, Organic, nos (cresol, formaldehyde)
Hazard Class: 6.1
Subsidiary Hazard Class: 8
Identification #: UN 2927
Packaging Group: II
Labels: None
EmS#: 6.1-02
Remarks: Qualifies For IMDG Limited Quantity Exception. Each bottle is wrapped in cushioning/absorbent material within card board box.

International Air:

Proper Shipping Name: Toxic Liquid, Corrosive, Organic, nos (cresol, formaldehyde)
Hazard Class: 6.1
Subsidiary Hazard Class: 8
Identification #: UN 2927
Packaging Group: II
Labels: Toxic Substance Label, 6; Corrosive, 8
Remarks: None

15. Regulatory Information

Cresol

This material meets the following health definitions according to the OSHA Hazard Communication Standard (29CFR1910.1200): Toxic, corrosive, irritant, and sensitizer.
TSCA (Toxic Substance Control Act): Product and/or components entered on EPA's TSCA inventory: yes
SARA Title III

Section 302: Contains no chemicals subject to SARA 302 reporting.
Section 313: This product contains the following substances subject to reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Chemical Name	CAS #	Conc.
m-Cresol	108-39-4	60
p-Cresol	106-44-5	40

Spills or releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.
The Reportable Quantity (RQ) of this material is 100 Lbs.

Formaldehyde

OSHA 8 hour PEL: 0.75 ppm
OSHA STEL: 2 ppm
IDLH: 100 ppm

16. Other Information:

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use there of. In no event will the manufacturer or the distributor be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information. General properties are to be regarded as guidelines and are not guaranteed for all samples.