TCI AMERICA
SAFETY DATA SHEET

Revision number: 1
Revision date: 07/06/2018

1. IDENTIFICATION

Product name: m-Cresol
Product code: C0401

Product use: For laboratory research purposes.
Restrictions on use: Not for drug or household use.

Company:
TCI America
9211 N. Harborgate Street
Portland, OR 97203 U.S.A.
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Emergency telephone number:
Chemical Emergencies:
TCI America (8:00am - 5:00pm) PST
+1-503-286-7624
Transportation Emergencies:
Chemtrec 24-Hour
+1-800-424-9300 (U.S.A.)
+1-703-527-3887 (International)
Responsible department:
TCI America
Environmental Health Safety and Security
+1- 503-286-7624

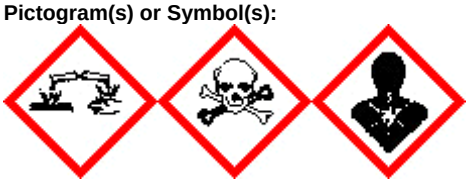
2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:
WHMIS 2015:
Acute Toxicity - Oral [Category 3]
Acute Toxicity - Dermal [Category 3]
Eye Damage/Irritation [Category 1]
Carcinogenicity [Category 2]
Specific Target Organ Toxicity (Single Exposure) [Category 1]
Specific Target Organ Toxicity (Repeated Exposure) [Category 1]
Specific Target Organ Toxicity (Repeated Exposure) [Category 2]
Flammable Liquids [Category 4]
Aquatic Hazard (Acute) [Category 2]
Skin Corrosion/Irritation [Category 1B]

Signal word: Danger!

Hazard Statement(s):
Combustible liquid
Toxic if swallowed or in contact with skin
Causes severe skin burns and eye damage
Suspected of causing cancer
Toxic to aquatic life
Causes damage to: Liver Blood System Respiratory System Cardiovascular System Kidney Central Nervous System
Causes damage to organs through prolonged or repeated exposure: Cardiovascular System Kidney Central Nervous System
May cause damage to organs through prolonged or repeated exposure: Liver Blood System Respiratory System

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

[Prevention] Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. – No smoking. Do not breathe mist, vapors or spray. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.

[Response] If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. 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. If exposed: Call a poison

center or doctor. In case of fire: Use dry chemical, dry sand or foam to extinguish.

[Storage] Store in a well-ventilated place. Keep cool. Store locked up.

[Disposal] Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified: [HNOC] None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance
Components: m-Cresol
Percent: >98.0%(GC)
CAS RN: 108-39-4
Molecular Weight: 108.14
Chemical Formula: C_7H_8O
Synonyms: 3-Methylphenol

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.

Eye contact: 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.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Symptoms/effects:

Acute: Pain. Redness.

Delayed: May have effects on the respiratory tract.

Indication of any immediate medical attention:
Not available.
Notes to physician:
No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.
Unsuitable extinguishing media: Solid streams of water

Hazardous combustion products: These products include: Carbon oxides
Other specific hazards: Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for containment and cleaning up: Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Prevention of secondary hazards: Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.
Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.
Avoid all contact!

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.
Store locked up.
Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

ACGIH TLV(TWA):	20 mg/m^3 (IFV) (skin)
OSHA PEL(TWA):	5 ppm (skin)
JSOH OELs(TWA):	5 ppm (skin)

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Pale yellow
Odour:	Characteristic
Odor threshold:	No data available
Odour threshold:	No data available

Melting point/freezing point:	10°C (Freezing point) (50°F)	pH:	No data available
Boiling point/range:	202°C (396°F)	**Vapour pressure:**	No data available.
Decomposition temperature:	No data available	**Vapour density:**	3.7
Relative density:	1.04	**Dynamic Viscosity:**	6.2mPa·s (40°C)
Kinematic viscosity:	1.76mm^2/s (80°C)		
Log Pow:	No data available	**Evaporation rate(Butyl Acetate=1):**	No data available
Flash point:	86°C (187°F)	**Autoignition temperature:**	575°C (1067°F)
Flammability(solid, gas):	No data available	**Flammability or explosive limits:**	
		Lower:	1.0%
		Upper:	No data available

Solubility(ies):

[Water]	Slightly soluble (2.4g/100mL, 20°C)
[Other solvents]	
Soluble:	Ether, Alcohols, Acetone

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	No special reactivity has been reported.
Conditions to avoid:	Open flame
Incompatible materials:	Oxidizing agents, Bases
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

RTECS Number: GO6125000

Acute Toxicity:
orl-rat LD50:242 mg/kg

skn-rbt LD50:620 mg/kg

Skin corrosion/irritation:
skn-rbt 517 mg/24H SEV

Serious eye damage/irritation:
eye-rbt 103 mg SEV

Respiratory or skin sensitization:
No data available

Germ cell mutagenicity:
dni-hmn-hla 10 umol/L/4H

Carcinogenicity:
skn-mus TDLo:2280 mg/kg/20W-I

IARC: No data available **NTP:** No data available **OSHA:** No data available

Reproductive toxicity:
orl-rat TDLo:4500 mg/kg (6-15D preg)

Target organ(s):
Causes damage to: Liver Blood System Respiratory System Cardiovascular System Kidney Central Nervous System
Causes damage to organs through prolonged or repeated exposure: Cardiovascular System Kidney Central Nervous System
May cause damage to organs through prolonged or repeated exposure: Liver Blood System Respiratory System

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:	96h LC50:3.88 mg/L (Oncorhynchus mykiss)
Crustacea:	48h LC50:18.8 mg/L (Daphnia magna)
Algae:	24h EC50:110 mg/L (Chlorococcales)

Persistence / degradability:	No data available
Bioaccumulative potential(BCF):	No data available
Mobility in soil	
Log Pow:	1.96
Soil adsorption (Koc):	No data available
Henry's Law (PaM ^{3}/mol):	8.7 x 10^{-2}

13. DISPOSAL CONSIDERATIONS

Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US)

UN number:	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
UN2076	Cresols, liquid	6.1 Toxic material.	8 Corrosive material	II

IATA

UN number:	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
UN2076	Cresols, liquid	6.1 Toxic material.	8 Corrosive material	II

IMDG

UN number:	Proper Shipping Name:	Class or Division:	Subrisk(s):	Packing Group:
UN2076	Cresols, liquid	6.1 Toxic material.	8 Corrosive material	II

EmS number: F-A, S-B
Reportable Quantitiy: 100 Pounds (45.4 Kilograms)

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):
This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:
- **SARA 313:** Listed
- **SARA 302:** Not Listed

State Regulations

State Right-to-Know
- **Massachusetts** Listed
- **New Jersey** Listed
- **Pennsylvania** Listed

California Proposition 65: Not Listed

Other Information

NFPA Rating:		HMIS Classification:	
Health:	3	**Health:**	3
Flammability:	1	**Flammability:**	1
Instability:	0	**Physical:**	0

International Inventories

Canada: DSL On DSL
EC-No: 203-577-9

16. OTHER INFORMATION

Revision date: 07/06/2018
Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.