

SAFETY DATA SHEET

Creation Date 25-Apr-2014 Revision Date 24-Dec-2021 Revision Number 7

1. Identification

Product Name m-Cresol

Cat No.: AC110580000; AC110580010; AC110580025; AC110580100;

AC110580250; AC110581000; AC110585000

CAS No 108-39-4

Synonyms 3-Hydroxytoluene; 3-Methylphenol

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

Tel: (201) 796-7100

Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

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

Flammable liquids

Acute oral toxicity

Category 3

Acute dermal toxicity

Category 3

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity (single exposure)

Category 1

Category 3

Category 3

Target Organs - Respiratory system.

Label Elements

Signal Word

Danger

Hazard Statements

Combustible liquid
Causes severe skin burns and eye damage
May cause respiratory irritation
Toxic if swallowed or in contact with skin



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep cool

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Eyes

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

Ingestion

Rinse mouth

Do NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

| Component | CAS No | Weight % |
|-----------|----------|----------|
| m-Cresol | 108-39-4 | 99 |

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Immediate medical attention is required.

Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the

substance; give 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. If

not breathing, give artificial respiration.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

Difficulty in breathing. Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation

of stomach or esophagus should be investigated

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may

be used to cool closed containers. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media No information available

Flash Point 86 °C / 186.8 °F

Method - No information available

Autoignition Temperature 558 °C / 1036.4 °F

Explosion Limits

Upper No data available

Lower 1 vol %

Sensitivity to Mechanical Impact No information available **Sensitivity to Static Discharge** No information available

Specific Hazards Arising from the Chemical

Combustible material. Corrosive material. Risk of ignition. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Environmental Precautions

Carbon monoxide (CO). Carbon dioxide (CO2).

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.

NFPA

HealthFlammabilityInstabilityPhysical hazards320N/A

6. Accidental release measures

in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Avoid release to the environment. See Section 12 for additional Ecological Information. Do

not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Keep away from open flames, hot

surfaces and sources of ignition. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek

immediate medical assistance.

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

heat, sparks and flame. Protect from direct sunlight. Corrosives area. Incompatible Materials. Acids. Bases. Strong oxidizing agents. Acid anhydrides. Chloroformates.

8. Exposure controls / personal protection

Exposure Guidelines

| Component | ACGIH TLV | OSHA PEL | NIOSH IDLH | Mexico OEL (TWA) |
|-----------|---------------------------|----------|---------------------------|---------------------------|
| m-Cresol | TWA: 20 mg/m ³ | | IDLH: 250 ppm | TWA: 20 mg/m ³ |
| | Skin | | TWA: 2.3 ppm | _ |
| | | | TWA: 10 mg/m ³ | |

Legend

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof

electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers

are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical StateLiquidAppearanceClearOdoraromatic

Odor Threshold No information available

pH 5 20 g/l water

Melting Point/Range 8 - 10 °C / 46.4 - 50 °F

Boiling Point/Range 203 °C / 397.4 °F @ 760 mmHg

Flash Point 86 °C / 186.8 °F
Evaporation Rate No information available

Flammability (solid,gas)

Not applicable

Flammability or explosive limits

Upper No data available

Lower 1 vol %

Vapor Pressure0.05 mbar @ 20 °CVapor DensityNo information available

Specific Gravity 1.030

Solubility 20 g/l (20°C)

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Partition coefficient: n-octanol/water

Autoignition Temperature Decomposition Temperature

Viscosity

Molecular Formula **Molecular Weight**

No data available 558 °C / 1036.4 °F No information available No information available

10. Stability and reactivity

C7 H8 O

108.14

Reactive Hazard None known, based on information available

Stable under normal conditions. Light sensitive. Stability

Conditions to Avoid Incompatible products. Exposure to light. Keep away from open flames, hot surfaces and

sources of ignition.

Incompatible Materials Acids, Bases, Strong oxidizing agents, Acid anhydrides, Chloroformates

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

None under normal processing. **Hazardous Reactions**

11. Toxicological information

Acute Toxicity

Product Information

Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | |
|-----------|-----------------------------------|-------------|----------------------------|--|
| m-Cresol | m-Cresol LD50 = 242 mg/kg (Rat) | | LC50 > 710 mg/m³ (Rat) 1 h | |

Toxicologically Synergistic

Products

No information available

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

Irritation Causes burns by all exposure routes

Sensitization No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico |
|-----------|----------|------------|------------|------------|------------|------------|
| m-Cresol | 108-39-4 | Not listed |

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

No information available. **Teratogenicity**

STOT - single exposure Respiratory system STOT - repeated exposure None known

No information available **Aspiration hazard**

delayed

Symptoms / effects,both acute and Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of overexposure may be headache, dizziness, tiredness, nausea

and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is

contraindicated. Possible perforation of stomach or esophagus should be investigated

Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals.

12. Ecological information

Ecotoxicity

Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|-----------|------------------|----------------------------|----------------------------|------------------------|
| m-Cresol | Not listed | LC50: = 8.9 mg/L, 96h | EC50 = 6.82 mg/L 5 min | LC50: = 18.8 mg/L, 48h |
| | | flow-through (Oncorhynchus | EC50 = 7.48 mg/L 15 min | (Daphnia magna) |
| | | mykiss) | EC50 = 7.83 mg/L 30 min | |
| | | LC50: 10 - 13.6 mg/L, 96h | _ | |
| | | (Lepomis macrochirus) | | |
| | | LC50: = 15.9 mg/L, 96h | | |
| | | static (Brachydanio rerio) | | |
| | | LC50: = 23.12 mg/L, 96h | | |
| | | semi-static (Poecilia | | |
| | | reticulata) | | |
| | | LC50: = 55.9 mg/L, 96h | | |
| | | flow-through (Pimephales | | |
| | | promelas) | | |
| | | | | |

Persistence and Degradability

Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

| Component | log Pow |
|-----------|---------|
| m-Cresol | 1.96 |

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN2076

Proper Shipping Name CRESOLS, LIQUID

Hazard Class 6.1 Subsidiary Hazard Class 8 Packing Group II

_TDG

UN-No UN2076

Proper Shipping Name CRESOLS, LIQUID

Hazard Class 6.1 Subsidiary Hazard Class 8 Packing Group II

<u>IATA</u>

UN-No UN2076

Proper Shipping Name CRESOLS, LIQUID

Hazard Class 6.1 Subsidiary Hazard Class 8 Packing Group II

IMDG/IMO

UN-No UN2076

Proper Shipping Name CRESOLS, LIQUID

Hazard Class 6.1 Subsidiary Hazard Class 8 Packing Group II

15. Regulatory information

United States of America Inventory

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|-----------|----------|------|---|-----------------------------|
| m-Cresol | 108-39-4 | X | ACTIVE | - |

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|-----------|----------|-----|------|-----------|-------|------|------|------|-------|----------|
| m-Cresol | 108-39-4 | X | - | 203-577-9 | X | X | Х | Х | X | KE-24793 |

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

| Component | CAS No | Weight % | SARA 313 - Threshold Values % |
|-----------|----------|----------|----------------------------------|
| m-Cresol | 108-39-4 | 99 | 1.0 |

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

| Component | CWA - Hazardous Substances | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|-----------|-------------------------------|--------------------------------|------------------------|---------------------------|
| m-Cresol | X | - | - | - |

Clean Air Act

| Oldan Ali Adi | | | |
|---------------|-----------|-------------------------|-------------------------|
| Component | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
| m-Cresol | X | | - |

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Component | | Hazardous Substances RQs | CERCLA EHS RQs | |
|-----------|----------|--------------------------|----------------|--|
| | m-Cresol | 100 lb | - | |

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-----------|---------------|------------|--------------|----------|--------------|
| m-Cresol | Х | X | X | X | - |

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Component

m-Cresol

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

| Component | . , | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | • | |
|-----------|-----|---|---|--|
| m-Cresol | - | Use restricted. See item 75. | - | |
| | | (see link for restriction details) | | |

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

CAS No

108-39-4

| | | | Pollutant | Potential | Hazardous Substances (RoHS) |
|-----------|----------|---|---|-------------------------------|------------------------------------|
| m-Cresol | 108-39-4 | Listed | Not applicable | Not applicable | Not applicable |
| | | | | | |
| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities | Seveso III Directive (2012/18/EC) - Qualifying Quantities | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |

OECD HPV

16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

Not applicable

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Not applicable

Not applicable

Restriction of

Annex I - Y42

Harmonized System of Classification and Labeling of Chemicals (GHS).

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 SDS