

SAFETY DATA SHEET

Version: v1

Revision Date: 2024-01-10

Print Date: 2024-01-17

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : m-Cresol
Product Number : C108243
Brand : aladdin
CAS-No. : 108-39-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION
Address : 14078 Meridian Parkway,
Riverside, CA. 92518
Telephone : +1 (833) 552-7181
Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300
CHEMTREC®, Outside the USA :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquid (category 4), H227

Acute toxicity, oral (category 3), H301

Acute toxicity, dermal (category 3), H311

Skin corrosion/irritation (category 1B), H314

Serious eye damage/eye irritation (Category 1), H318

Acute (short-term) aquatic hazard (category 2), H401

Long-term aquatic hazard (category 3), H412

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H227

Combustible liquid

H314

Causes severe skin burns and eye damage

H401

Toxic to aquatic life

H301+H311

Toxic if swallowed or in contact with skin

Precautionary statement(s)

P210

Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.

P264

Wash hands [and ...] thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P273

Avoid release to the environment.

P280

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

P310

Immediately call a POISON CENTER or doctor/physician.

P330

Rinse mouth.

P301+P310

IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353

IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338

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

P361+P364

Take off immediately all contaminated clothing and wash it before reuse.

P370+P378

In case of fire: Use ... to extinguish.

P405

Store locked up.

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: 3-Methylphenol 3-Hydroxytoluene 3-Cresol
Formula	: C7H8O
Molecular weight	: 108.14
CAS No.	: 108-39-4
EC-NO.	: 203-577-9

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Component	Classification	Concentration
m-Cresol	no data available	Standard for GC, ≥99.7%(GC)

SECTION 4: First aid measures

4.1 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.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water foam carbon dioxide (CO₂) dry powder

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, 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.

6.2 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.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from open flames, hot surfaces and ignition sources. Take measures to prevent electrostatic discharge. Change contaminated clothing immediately. Use skin protection lotion. Wash hands and face after using this substance. For preventive measures, see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a dry and ventilated place, Light sensitive , Store away from light.

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles.Faceshield (8-inch minimum).Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves.Gloves must be inspected prior to use.Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.If the respirator is the sole means of protection, use a full-face supplied air respirator.Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

If safety requires, prevent further leakage or spillage. Do not let the product enter the sewer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	form: Liquid or Solid color: Colorless to Very Dark Yellow
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	8 - 10 °C
f) Initial boiling point and boiling range	203 °C
g) Flash point	86 °C
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	1.06 %(V) 1.35 %(V)
k) Vapour pressure	< 1 hPa (< 1 mmHg) at 20 °C (68 °F)
l) Vapour density	3.73- (Air = 1.0)
m) Relative density	1.034 g/cm ³ at 25 °C (77 °F)
n) Water solubility aqueous solutions, etc.	Slightly soluble in water, miscible with ethanol, ether, sodium hydroxide
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available

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t) Oxidizing properties N no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

May react violently with: Strong oxidants Nitric acid Oleum Chlorosulfuric acid Alkaline

10.4 Conditions to avoid

Strong heating

10.5 Incompatible materials

Bronze, brass, iron, lead

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral-Rat-Male-242 mg/kg

(OECD Test Guideline 401)

Symptoms: Swallowing can cause severe burns to the mouth and throat, and there is a danger of perforation of the esophagus and stomach.

Symptoms: mucosal irritation, cough, shortness of breath, possible damage:, damage to the respiratory tract

LD50 transdermal-rabbit-620 mg/kg

Remarks: Behavioral: lethargy (total vitality suppression).

Behavioral: muscle rigidity

(RTECS)

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Skin corrosion/irritation

Skin-Rabbit Result: cause burns. -24 h Remarks: (ECHA) Classification according to EU CLP Regulation 1272/2008, Annex 6 (Table 3.1/3.2)

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

Test type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolism activation: with or without metabolic activation Method: OECD Test Guideline 471 Result: negative Test type: Mutagenicity (mammalian cell test): Negative chromosomal mutation. Test system: Chinese hamster lung cells Metabolism activation: with or without metabolic activation Method: OECD Test Guideline 473 Result: positive Test type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolism activation: with or without metabolic activation Method: OECD Test Guide 476 Result: negative Test type: Chromosome aberration test Species: Mouse Cell type: bone marrow Route of exposure: Oral Method: OECD Test Guideline 475 Result: negative

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

Repeated exposure toxicity-rat-male-oral-13 weeks-no harmful effects observed-50 mg/kg

Registration of Toxic Effects of Chemical Substances: GO6125000

The substance has great damage to mucosal tissues and upper respiratory tract, eyes and skin. , Cough, shortness of breath, headache, nausea

As far as we know, the chemical, physical and toxic properties have not been fully studied.

After absorption:

System impact:

Headache

Nausea

Vomit

Dizziness

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Excitement, convulsions.

Breathing stopped

Lose consciousness

destroy:

Central Nervous System

liver

kidney

This substance must be handled with special care.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test LC50-Salvelinus fontinalis-7.6 mg/l-96 h

Remarks: (ECHA)

Static test LC50-Oncorhynchus mykiss (rainbow trout)-8.6 mg/l-96 h

Remarks: (ECHA)

Static test LC50-Salmo trutta (brown trout)-8.4 mg/l-96 h

Remarks: (ECHA)

No ridge to water flea and other aquatic species

Toxicity of Vertebral Animals

Flow test EC50-Daphnia pulex-> 99.5 mg/l-48 h

(US-EPA)

12.2 Persistence and degradability

Biodegradability Aerobic-Exposure time 10 d Result: 96%-inherently biodegradable. (OECD Test Guideline 302B)

12.3 Bioaccumulative potential

Bioaccumulation Leuciscus idus (Leuciscus leucocephala)-3 d -0.05 mg/l (m-cresol) Bioconcentration Factor (BCF): 17-20

12.4 Mobility in soil

no data available

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12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Biological effects: Harmful to drinking water. Causes changes in the odor characteristics of fish proteins. Avoid discharge into the surrounding environment.

SECTION 13:

13.1 Disposal considerations

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 2076

Packing group: II

Class: 6.1 (8)

Proper shipping name: Cresols, liquid

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: No

IMDG

UN number: 2076

Packing group: II

EMS-No: no data available

Proper shipping name: Cresols, liquid

IATA

UN number: 2076

Packing group: II

Class: 6.1 (8)

Proper shipping name: Cresols, liquid

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

Prepared By

Regulatory Affairs

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Creation Date

23-Nov-2023

Revision Date

10-Jan-2024

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Print Date

17-Jan-2024

Revision Summary

SDS sections updated v1

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