

Material Safety Data Sheet

Chemical Safety Data Sheet

Section 1 IDENTIFICATION

GHS Product identifier: o-Cresol.

Other means of identification: 2-Hydroxytoluene.

Recommended use of the chemical and restrictions on use: This material can be used in organic synthesis and can be used as disinfectant and preservative.

Supplier's details:

Emergency phone number: /

Section 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Acute toxicity, oral Category 3

Acute toxicity, dermal Category 3

Skin corrosion/irritation Category 1B

Serious eye damage/eye irritation Category 1

GHS Label elements, including precautionary statements:

Symbol:



Signal word: Danger

Hazard statement(s): Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage.

Precautionary statement(s):

Prevention:

Wash ...thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dusts or mists. Wear protective gloves/protective clothing/eye protection/face protection.

Response:

If swallowed: Immediately call a poison center/doctor. Specific treatment (see under for further information). Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Wash with plenty of water. Call a poison center/doctor if you feel unwell. Specific treatment (see under for further information). Take off immediately all contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. Specific treatment (see under for further information). 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/doctor.

Storage:

Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification: /

Material Safety Data Sheet

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
o-Cresol	95-48-7	99.81%
Phenol	108-95-2	0.06%
2,6-Dimethylphenol	576-26-1	0.08%
Water	7732-18-5	0.05%

Section 4 FIRST AID MEASURES

Description of necessary first aid measures

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

In case of skin contact: Wash off with soap and plenty of running water. Consult a physician immediately.

In case of eye contact: Rinse thoroughly with plenty of running water for at least 15 minutes and consult a physician immediately.

If ingestion: Rinse mouth with water. Do not induce vomit. Consult a physician immediately.

Most important symptoms/effects, acute and delayed: /

Indication of immediate medical attention and special treatment needed, if necessary: /

Section 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Use foam, dry powder, water spray, etc.

Special hazards arising from the chemical: This material may burn and decompose at high temperature and fire and release toxic fumes.

Special protective actions for fire-fighters: Firefighters must wear air breathing apparatus, fire-fighting suits and protective gloves to extinguish in the upwind direction. Whenever possible, remove the container from the fire to open space and use spray water to cool unopened containers.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: It is recommended that emergency personnel wear protective masks and fire protective overalls. Do not touch the spill directly.

Environmental precautions: Isolate contaminated areas and restrict access.

Methods and materials for containment and cleaning up: Small amount of leakage: Avoid dusting, use a clean shovel to collect in a dry, clean, covered container and transfer to a safe place. Do not allow products to enter restricted areas such as sewers. A large amount of leakage: Cover with plastic sheeting and canvas. Use a non-sparking tool to collect the waste or transport it to a waste disposal site for disposal.

Section 7 HANDLING AND STORAGE

Precautions for safe handling: There should be sufficient local exhaust in workplace. Operators should be trained and strictly follow the operating procedures. Operators are advised to wear gas masks, corrosion-resistant protective clothing and rubber gloves. Operators should load and unload lightly during handling to prevent damage to the package. There should be leakage

Material Safety Data Sheet

treatment equipment in workplace. There may be harmful residues in empty containers.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated warehouse. Keep away from fire and heat. Protect from direct sunlight. The package should be sealed and not exposed to moisture. It should be stored separately from oxidants, flammable materials, etc., and should not be mixed. The storage area should be provided with suitable materials to contain spills.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Source	Material name	TWA	STEL
China Occupational Exposure Limits for Hazardous Agents in the Workplace	Cresol	10 (mg/m ³)	/

Appropriate engineering controls: Close strictly and provide sufficient local exhaust.

Individual protection measures

Eye/face protection: Wear an air mask.

Skin protection: Wear corrosion-resistant protective clothing.

Respiratory protection: A dust mask (full face mask) must be worn when exposed to dust. Air respirators should be worn during emergency rescue or evacuation.

Thermal hazards: /

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour etc)	Colorless crystal.
Odour	/
Odour Threshold	/
pH	/
Melting point/freezing point	31°C.
Initial boiling point and boiling range	191°C.
Flash point	81°C.
Evaporation rate	/
Flammability (solid, gas)	/
Upper/lower flammability or explosive limits	/
Vapour pressure	33Pa (25°C).
Vapour density	3.7.
Relative density	1.05.
Solubility(ies)	2.5g/100ml (25°C).
Partition coefficient: n-octanol/water	1.95.
Auto-ignition temperature	555°C.
Decomposition temperature	/
Viscosity	/

Section 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: The material is stable in normal temperature.

Material Safety Data Sheet

Possibility of hazardous reactions: Reacts violently with strong oxidants. The solution in water is a weak acid.

Conditions to avoid: Spark, high temperature and static electricity.

Incompatible materials: Oxidizers and flammable materials.

Hazardous decomposition products: Oxycarbides.

Section 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Ingestion (swallowing), skin/eye exposure and inhalation.

Symptoms related to the physical, chemical and toxicological characteristics: /

Acute health effects:

Ingestion may be toxic and can cause symptoms such as burning, nausea, vomiting and abdominal pain.

Skin contact may be toxic and can cause redness and burn.

Inhalation can cause cough and throat burn.

Eyes contact can cause redness and burn.

Chronic health effects: Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the nervous system. This may result in impaired functions. The substance may have effects on the blood. This may result in anaemia.

Numerical measures of toxicity(such as acute toxicity estimates):

LD50(oral, rat): 121 mg/kg

LD50(dermal, rat): 620 mg/kg

Section 12 ECOLOGICAL INFORMATION

Toxicity:

Endpoint	Test Duration (hr)	Species	Value
LC50	96	Fish	4mg/L
EC50	48	Crustacea	9.5mg/L
EC50	96	Algae or other aquatic plants	47.522mg/L
NOEC	504	Crustacea	1mg/L

Persistence and degradability: Low (Half-life = 14 days).

Bioaccumulative potential: Low (LogKOW = 1.95).

Mobility in soil: Low (KOC = 443.1).

Other adverse effects: /

Section 13 DISPOSAL CONSIDERATIONS

Disposal methods: Dispose this product by safe burial. Damaged containers are prohibited from being reused and should be buried in the prescribed place.

Section 14 TRANSPORT INFORMATION

Material Safety Data Sheet

UN number: 3455.
UN proper shipping name: CRESOLS, SOLID.
Transport hazard class(es) : 6.1+8.
Packing group, if applicable: II.
Environmental hazards: /
Special precautions for user: /

Section 15 REGULATORY INFORMATION

Regulations: This safety data sheet is in compliance with the following national standards: GB/T 16483-2008, GB 13690-2009, GB 18218-2009, GB 15258-2009, GB 6944-2012, GB 190-2009, GB/T 191-2008, GB 12268-2012, GA 57-1993, GB/T 15098-2008, GBZ 2.1-2007, GBZ 2.2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation [Published by the Ministry of Railways, 2008], Dangerous Chemicals Safety Administrative Regulation [Published by the State Council, 2011].

Section 16 OTHER INFORMATION

References	UN Recommendations on the Transport of Dangerous Goods Model Regulations UN Globally Harmonized System of Classification and Labelling of Chemicals
Form Date	15-May-2022

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer/supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.

