



MATERIAL SAFETY DATA SHEET

4-CHLORO-M-CRESOL

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
4-Chloro-M-Cresol

Catalog Numbers: C/4760

Synonyms:
4-Chloro-M-Cresol, 6-Chloro-3-Hydroxytoluene

Company Information:
LEONID CHEMICALS
62/A-2 1st Stage, Yeshwanthpur Industrial Suburb
Ashokpuram School Road
Bangalore-560 022, Karnataka, INDIA
Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	59-50-7
Chemical Name	:	4-Chloro-M-Cresol
%	:	100 %
EINECS#	:	200-431-6
Hazard Symbols	:	XN N
Risk Phrases	:	21/22 41 43 50

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful in contact with skin and if swallowed. Risk of serious damage to eyes. May cause sensitization by skin contact. Very toxic to aquatic organisms.

Potential Health Effects

Eye:
Causes eye irritation.

Skin:
Causes skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion:
Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation:
Causes respiratory tract irritation.



Chronic:
May cause liver and kidney damage.

SECTION 4- FIRST AID MEASURES

Eyes:
Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:
If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:
Not available.

SECTION 5- FIRE FIGHTING MEASURES

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media:
In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

SECTION 6- ACCIDENTAL RELEASE MEASURES

General Information:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Vacuum or sweep up material and place into a suitable disposal container. Reduce airborne dust and prevent scattering by moistening with water. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

SECTION 7 - HANDLING and STORAGE

Handling:
Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry place. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes:

Not available.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Solid
Color	:	white to pale pink
Odor	:	Odorless.
pH	:	Not available.
Vapor Pressure	:	0.08 mm Hg @ 20C
Viscosity	:	Not available.
Boiling Point	:	235 deg C
Freezing/Melting Point	:	66 deg C
Auto ignition Temperature	:	590 deg C (1,094.00 deg F)
Flash Point	:	Not applicable.
Explosion Limits, lower	:	Not available.
Explosion Limits, upper	:	Not available.
Decomposition Temperature	:	Not available.
Solubility in water	:	Slightly soluble in water.
Specific Gravity/Density	:	Not available.
Molecular Formula	:	C7H7ClO
Molecular Weight	:	142.5014

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, dust generation.

Incompatibilities with Other Materials:

Bases, acid chlorides, acid anhydrides, sodium hydroxide, oxidizing agents, steel, brass, copper, and copper alloys.

Hazardous Decomposition Products:
Hydrogen chloride, chlorine, phosgene, carbon monoxide, carbon dioxide.

Polymerization:
Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 59-50-7: Go7100000

LD50/LC50:
CAS# 59-50-7: Oral, mouse: LD50 = 600 mg/kg; Oral, rat: LD50 = 1830 mg/kg.

Carcinogenicity:
4-Chloro-M-Cresol -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
See actual entry in RTECS for complete information.

Other:
Readily biodegradable.

SECTION 12 - ECOLOGICAL INFORMATION

Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name : CHLOROCRESOLS
Hazard Class : 6.1
UN Number : 2669
Packing Group : II

IMO

Shipping Name : CHLOROCRESOLS
Hazard Class : 6.1
UN Number : 2669
Packing Group : II

ID/ADR

Shipping Name : CHLOROCRESOLS
Hazard Class : 6.1
UN Number : 2669
Packing Group : II

USA RQ: CAS# 59-50-7: 5000 lb final RQ; 2270 kg final RQ

SECTION 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols:

XN N

Risk Phrases:

R 21/22 Harmful in contact with skin and if swallowed.

R 41 Risk of serious damage to eyes.

R 43 May cause sensitization by skin contact.

R 50 Very toxic to aquatic organisms.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 59-50-7: 2

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 59-50-7 is listed on Canada's DSL List.

CAS# 59-50-7 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 59-50-7: Not available.

US FEDERAL

TSCA

CAS# 59-50-7 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.