

Material Safety Data Sheet

4-Chloro-3-methylphenol

ACC# 90138

Section 1 - Chemical Product and Company Identification

MSDS Name: 4-Chloro-3-methylphenol

Catalog Numbers: AC109480000, AC109480050, AC109481000, AC109485000

Synonyms: 6-Chloro-3-hydroxytoluene; 4-Chloro-m-cresol.

Company Identification:

Acros Organics N.V.
One Reagent Lane
Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
59-50-7	4-Chloro-3-methylphenol	99+	200-431-6

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white tablets.

Warning! Harmful in contact with skin and if swallowed. Causes severe eye irritation. Eye contact may result in permanent eye damage. May cause allergic skin reaction. May cause skin and respiratory tract irritation. May cause central nervous system effects. Very toxic to aquatic organisms.

Target Organs: Kidneys, central nervous system, eyes, skin.

Potential Health Effects

Eye: Causes severe eye irritation. Risk of serious damage to eyes.

Skin: May cause skin irritation. Harmful if absorbed through the skin. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Phenol derivatives may be absorbed through the skin producing headache, dizziness, dimness of vision, ringing in the ears, irregular breathing, and weakness.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract. May cause central nervous system effects.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled. Phenol derivatives may be absorbed from the lungs producing headache, dizziness, dimness of vision, ringing in the ears, irregular breathing, and weakness. May cause pulmonary edema.

Chronic: Repeated or prolonged exposure may cause allergic reactions in sensitive individuals. May cause kidney damage. Systemic effects are presumably like

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: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid immediately. Call a poison control center.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician: Treat symptomatically and supportively.

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.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: 118 deg C (244.40 deg F)

Autoignition Temperature: 590 deg C (1,094.00 deg F)

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 1; Instability: 0

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. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Store in a cool, dry place. Store in a tightly closed container.

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 ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
4-Chloro-3-methylphenol	none listed	none listed	none listed

OSHA Vacated PELs: 4-Chloro-3-methylphenol: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: 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: 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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if

exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Tablets

Appearance: white

Odor: Odorless.

pH: 6.5 (1 g/L aq.sol.)

Vapor Pressure: 0.08 mbar @ 20 deg C

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 235 deg C @ 760 mmHg

Freezing/Melting Point: 63 - 65 deg C

Decomposition Temperature: Not available.

Solubility: Slightly soluble.

Specific Gravity/Density: Not available.

Molecular Formula: C₇H₇ClO

Molecular Weight: 142.58

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials: Bases, acid chlorides, acid anhydrides, sodium hydroxide, oxidizing agents, steel, brass, copper, and copper alloys.

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

Hazardous Polymerization: Will not occur.

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:

CAS# 59-50-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: Mutation in bacteria.

Neurotoxicity: No information available.

Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Fathead Minnow: LC50: 13.3mg/L; 24 Hr; Fish: Fathead Minnow: LC50: 11.4mg/L; 48 Hr; Fish: Fathead Minnow: LC50: 9.21 mg/L; 72 Hr; Daphnia: Daphnia: EC50: 5.6 mg/L; 24 Hr; No data available.
Environmental: Very toxic to aquatic organisms.
Physical: No information available.
Other: Do not empty into drains.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series:

CAS# 59-50-7: waste number U039.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	CHLOROCRESOLS, SOLID	CHLOROCRESOLS, SOLID
Hazard Class:	6.1	6.1
UN Number:	UN3437	UN3437
Packing Group:	II	II

Section 15 - Regulatory Information

US FEDERAL

TSCA

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

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

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

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 59-50-7: immediate.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

CAS# 59-50-7 is listed as a Priority Pollutant under the Clean Water Act.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 59-50-7 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

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

Canada - DSL/NDSL

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

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 59-50-7 is not listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information
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MSDS Creation Date: 7/06/1998

Revision #7 Date: 8/14/2008

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 event shall Fisher 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 Fisher has been advised of the possibility of such damages.