Material Safety Data Sheet
o-Cresol, 99+% (gc)

ACC# 16960

Section 1 - Chemical Product and Company Identification

MSDS Name: o-Cresol, 99+% (gc)
Catalog Numbers: AC405730000, AC405730010, AC405730040, C536-250, C536-500
Synonyms: 2-Cresol; o-Cresylic Acid; 2-Hydroxytoluene; o-Hydroxytoluene; 2-Methylphenol.
Company Identification:

Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410

For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
95-48-7	O-CRESOL	>98	202-423-8

Hazard Symbols: T C
Risk Phrases: 34 24/25

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Not available. **Danger!** Harmful if swallowed. May cause liver damage. May cause kidney damage. Corrosive. Toxic. Causes eye and skin burns. Causes digestive and respiratory tract burns.
Target Organs: Blood, kidneys, central nervous system, liver, spleen, respiratory system, pancreas.

Potential Health Effects
Eye: Contact with eyes may cause severe irritation, and possible eye burns. May cause conjunctivitis and keratitis.
Skin: May be absorbed through the skin in harmful amounts. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Causes severe skin irritation and burns.
Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause liver and kidney damage. Causes severe digestive tract burns with abdominal pain, vomiting, and possible death. May cause hemorrhaging of the digestive tract. Cresols may cause abnormalities of the central nervous system, respiratory system, spleen, and pancreas.
Inhalation: Causes respiratory tract irritation. May cause breathing difficulty, headache, nausea, muscle weakness, and possible respiratory tract abnormalities.
Chronic: May cause liver and kidney damage. May cause appetite loss, diarrhea, skin abnormalities, and digestive tract disturbances.

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. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.
Inhalation: Get medical aid immediately. 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: 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. Vapors can travel to a source of ignition and flash back.
Extinguishing Media: Use water spray, dry chemical, or foam.
Flash Point: Not available
Autoignition Temperature: Not available.
Explosion Limits, Lower: Not available.
Upper: Not available.
NFPA Rating: (estimated) Health: ; Flammability: ; Instability:

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not get on skin or in eyes. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.
Storage: Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
O-CRESOL	5 ppm TWA; skin - potential for cutaneous absorption	2.3 ppm TWA; 10 mg/m3 TWA 250 ppm IDLH	none listed

OSHA Vacated PELs: O-CRESOL: 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 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
Appearance: Not available.
Odor: phenol-like
pH: Not available.
Vapor Pressure: .25 mm Hg @ 25C
Vapor Density: 3.72 (air=1)
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point:30 deg C
Decomposition Temperature: Not available.
Solubility: Not available.
Specific Gravity/Density:1.0500g/cm3
Molecular Formula:C7H8O
Molecular Weight:108.14

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: High temperatures, incompatible materials.
Incompatibilities with Other Materials: Substance will cause an increase in temperature and pressure when mixed with the following: chlorosulfonic acid, nitric acid, and oleum. Substance is incompatible with strong oxidizers.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 95-48-7: GO6300000
LD50/LC50:
CAS# 95-48-7:
Draize test, rabbit, eye: 105 mg Severe;
Draize test, rabbit, skin: 524 mg/24H Severe;
Inhalation, mouse: LC50 = 179 mg/m3/2H;
Inhalation, mouse: LC50 = 179 mg/m3;
Inhalation, rat: LC50 = >1220 mg/m3/1H;
Inhalation, rat: LC50 = 29 mg/m3;
Oral, mouse: LD50 = 344 mg/kg;
Oral, mouse: LD50 = 344 mg/kg;
Oral, rabbit: LD50 = 940 mg/kg;
Oral, rat: LD50 = 121 mg/kg;

Oral, rat: LD50 = 1350 mg/kg;
Skin, rabbit: LD50 = 890 mg/kg;
Skin, rabbit: LD50 = 890 mg/kg;
Skin, rat: LD50 = 620 mg/kg;
Skin, rat: LD50 = 620 mg/kg;

Carcinogenicity:
CAS# 95-48-7: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Neurotoxicity: No information available.
Mutagenicity: No information available.
Other Studies: None.

Section 12 - Ecological Information

Ecotoxicity: No data available. Goldfish (soft water) TLm=49.1-19ppm/24-96H Bluegill (soft water) TLm=22.2-20.8ppm/24-96H Fathead minnow (hard water) TLm=18-13.4ppm/24-96H Guppy (hard water) TLm=18-50ppm/24-96H
Environmental: In air, substance will react with photochemically-produced hydroxyl radicals (day) and nitrate radicals (night). In water, substance will biodegrade within days. Substance is mobile in most soils and will biodegrade.
Physical: No information available.
Other: Please refer to the Handbook of Environmental Fate and Exposure Data (Vol 1) for additional information.

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: None listed.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	No information available.				No information available.
Hazard Class:					
UN Number:					
Packing Group:					

Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 95-48-7 is listed on the TSCA inventory.
Health & Safety Reporting List
CAS# 95-48-7: Effective 10/4/82; Sunset 10/4/92
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.
SARA

CERCLA Hazardous Substances and corresponding RQs
CAS# 95-48-7: 100 lb final RQ; 45.4 kg final RQ
SARA Section 302 Extremely Hazardous Substances
CAS# 95-48-7: 1000 lb TPQ (lower threshold); 10000 lb TPQ (upper thres hold)
SARA Codes
CAS # 95-48-7: acute, flammable.
Section 313
This material contains O-CRESOL (CAS# 95-48-7, 98%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
Clean Air Act:
CAS# 95-48-7 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.
Clean Water Act:
CAS# 95-48-7 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. 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# 95-48-7 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Massachusetts.

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:
T C
Risk Phrases:
R 34 Causes burns.
R 24/25 Toxic in contact with skin and if swallowed.

Safety Phrases:
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)
CAS# 95-48-7: 2
Canada - DSL/NDSL
CAS# 95-48-7 is listed on Canada's DSL List.
Canada - WHMIS
This product has a WHMIS classification of B3, D1A, E.
Canadian Ingredient Disclosure List
CAS# 95-48-7 is listed on the Canadian Ingredient Disclosure List.
Exposure Limits
CAS# 95-48-7: OEL-DENMARK:TWA 5 ppm (22 mg/m3);Skin OEL IN BULGARIA , COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

Section 16 - Additional Information

MSDS Creation Date: 12/12/1997
Revision #4 Date: 3/04/2004