

A Division of Spectrum Chemical Mfg. Corp.

Dear Customer,

This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product

Spectrum is currently transitioning all chemical product labeling from the ANSI format to the GHS format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

Why It Matters:

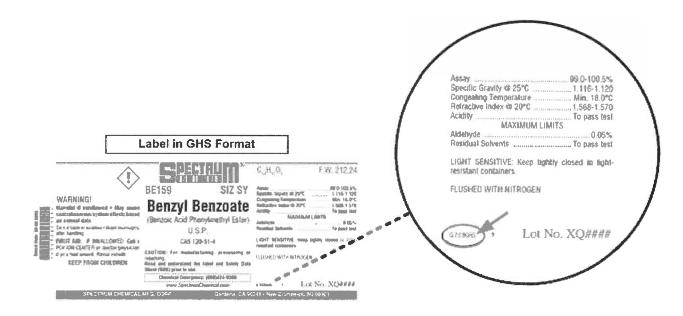
The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling [Label + (M)SDS] are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understood BOTH before handling or using the chemical.

<u>Picking the Right One</u>: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label

- 1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond. ANSI labels: pictograms, if present, will be inside individual black boxes.
- 2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter. For GHS labels, the string of characters will end in "GHS:"



CORPORATE OFFICES
14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843



¹ American National Standards Institute

Sincerely,

Regulatory Affairs

² Globally Harmonized System for Hazard Communication





SAFETY DATA SHEET

Preparation Date: 3/24/2015 Revision Date: 3/24/2015 Revision Number: G1

Product identifier

Product code: C2773

Product Name: METACRESOL, USP

Other means of identification

Synonyms: 1-Hydroxy-3-methylbenzene; 3-Cresol; 3-Hydroxytoluene;

3-Methylphenol; m-Cresole; m-Cresylic acid; m-Hydroxytoluene;

m-Kresol; m-Methylphenol; m-Oxytoluene; m-Toluol;

phenol, 3-methyl-; Metacresol

CAS #: 108-39-4
RTECS # GO6125000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Skin corrosion/irritation	Category 1Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 4

Label elements

Product code: C2773 Product name: METACRESOL, USP 1 / 13

Danger

Hazard statements

Toxic if swallowed

Toxic in contact with skin

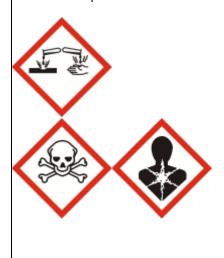
Causes severe skin burns and eye damage

May cause an allergic skin reaction

May cause respiratory irritation

May cause damage to organs through prolonged or repeated exposure

Combustible liquid



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

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

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep cool

Precautionary Statements - Response

Specific treatment (see .? on this label)

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

In case of fire: Use CO2, dry chemical, or foam to extinguish.

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 or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Do NOT induce vomiting

Product code: C2773 Product name: METACRESOL, USP 2 / 13

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
m-Cresol	108-39-4	100	*
108-39-4			

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First

aider needs to protect himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for

at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention

is required. Call a physician immediately.

Eye Contact: Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician

immediately.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth

resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. 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. Immediate medical attention is required. Call a physician

immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Immediate medical attention is required. Call a physician or Poison

Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms

Severe skin and eye irritation or burns. Characteristic odor of phenol on the breath. May cause gastrointestinal (digestive) tract burns. Can burn mouth, throat, and stomach. Abdominal pain. May cause diarrhea. May cause nausea and headache. Pallor. Sweating. May cause methemoglobinemia and cyanosis. Shallow respiration. Dyspnea (Shortness of breath and difficulty breathing). Coughing and wheezing. May cause build-up of fluid in the lungs (pulmonary edema). May cause inflammation of the lungs (pneumonitis). May cause central nervous system effects. May affect the liver. It may affect the kidneys. May affect the

cardiovascular system. May cause allergic contact dermatitis.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Product code: C2773 Product name: METACRESOL, USP 3 / 13

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media:A solid water stream may be inefficient.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Monoxide. Carbon Dioxide

Specific hazards: Combustible material. May be ignited by heat, sparks or

flames. Container explosion may occur under fire conditions

or when heated.

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For

larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled

material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways,

sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containmentStop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite,

dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill

for later disposal.

Methods for cleaning upUse appropriate tools to put the spilled material in a suitable chemical waste disposal

container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Product code: C2773 Product name: METACRESOL, USP 4 / 13

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Protect from moisture. Protect from light. Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segrated and approved area.

Incompatible Materials:

Strong oxidizing agents. Acids. Bases. Aluminum. aluminum alloys. Copper alloys. Copper.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	2.3 ppm TWA	20 mg/m ³ TWA inhalable	None
m-Cresol - 108-39-4		10 mg/m ³ TWA	fraction and vapor	

Canada

Components	Alberta	British Columbia	Ontario	Quebec
	5 ppm TWA	10 mg/m ³ TWA	20 mg/m ³ TWA inhalable	None
m-Cresol - 108-39-4	22 mg/m ³ TWA	_	fraction and vapor	

Australia and Mexico

Components	Australia	Mexico
m-Cresol	None	None
108-39-4		

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Provide exhaust ventilation or

other engineering controls to keep the airborne

concentrations of vapors and mist below their respective

threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles. Face-shield.

Skin and body protection: Chemical resistant protective suit. Gloves. boots.

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Wash hands and face before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: C2773 Product name: METACRESOL, USP 5 / 13

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Colors

Liquid. No information available Colorless to pale yellow.

Odor: Taste Molecular/Formula weight:

Phenolic. Coal tar. Sweet, tarry. No information available 108.14

Formula: Flash point (°C): Flashpoint (°C/°F):

C7-H8-O 86 86°C/186.8°F

Flash Point Tested according to: Lower Explosion Limit (%): Upper Explosion Limit (%):

Not available 1.1% No information available

Autoignition Temperature (°C/°F): pH: Melting point/range(°C/°F):

558°C/1036.4°F No information available 11.5°C/52.7°F

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): Bulk density:

202°C/395.6°F No information available No information available

Specific gravity: Vapor pressure @ 20°C (kPa): Density (g/cm3):

Evaporation rate: Vapor density: VOC content (g/L):
No information available
3.72
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

1.96

Miscibility: Solubility:

Miscible in Chloroform Partially soluble in water

Miscible with alcohol Solubility in water: 22700 mg/L @ 25°C Miscible with Ether

10. STABILITY AND REACTIVITY

Reactivity

No information available

Miscible with Acetone

Chemical stability

Stability: Stable under recommended storage conditions. Hygroscopic. Sensitive to light. Exposure to

light accelerates decomposition.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Exposure to light. Exposure to moist air. Exposure to

moisture. Incompatible materials.

Incompatible Materials: Strong oxidizing agents. Acids. Bases. Aluminum. aluminum alloys. Copper alloys.

Copper.

Hazardous decomposition products: No information available

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

Product code: C2773 Product name: METACRESOL, USP 6 / 13

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

m-Cresol - 108-39-4

LD50/oral/rat = 242 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = 1860 mg/kg Dermal LD50Rabbit (LOLI; EU Commission IUCLID dataset)

620 mg/kg (RTECS)

2050-2830 mg/kg (EU Commission IUCLID dataset)

LD50/dermal/rat = = 1100 mg/kg Dermal LD50 Rat

LC50/inhalation/rat = >710 mg/m³ Inhalation LC50 Rat 1 h

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 242mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = 620mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = 1100mg/kg

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = >710mg/m³ (1-hr)

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes severe irritation and burns. Skin contact with cresols has resulted in skin

blanching, skin peeling, burning sensation, erythema, localized anesthesia (numbness), and occasionally, ochronosis, a darkening of the skin. It is also absorbed through the skin. When absorbed through the skin it can cause somnolence and tetany and produce systemic effects such facial peripheral neuritis, damage to internal organs, including loss of kidney function and necrosis of the liver

and kidneys. Serious or even fatal poisoning may result if large areas of the skin are wet with cresol and it is not removed immediately. Hypersensitivity may also occur...

Eye Contact: Severe eye irritation. Causes eye burns.

Product code: C2773 Product name: METACRESOL, USP 7 / 13

Inhalation

Irritating to respiratory system. It is extremely destructive to the tissue of the mucous membrane and upper respiratory tract. Inhalation may result in spasm, inflammation, and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea..

Ingestion

Irritating to mouth, throat and stomach. Corrosive to the mouth, throat, and stomach. Causes digestive or gastrointestinal tract burns. Can cause burning pain in mouth and throat. White necrotic lesions in mouth, esophagus, and stomach, abdominal pain, peritonitis, nausea, vomiting, bloody diarrhea, dyspnea, pallor, sweating, central nervous system disturbances (somnolence, convulsions, headache, dizziness), tinnitus. Acute ingestion may lead to shock with cardiovascular disturbances (weak irregular pulse, tachycardia, hypotension), shallow respirations, cyanosis, pallor, profound fall in body temperature, possible fleeting excitement and confusion followed by unconciousness. Other symptoms of acute ingestion may include stentorous breathing, mucous rales, rhonchi, frothing at nose and mouth and other signs of pulmonary edema, characteristic odor of phenol on the breath, impairment of kidney function (renal necrosis, nephritis, acute renal failure with scanty, dark-colored urine (oliguria, anuria), hematuria), moderately severe renal insufficiency), impairment of liver function, Methemoglobinemia, Heinz body hemolytic anemia, hyperbilirubinemia. Death from respiratory, circulatory or cardiac failure may occur.

Aspiration hazard

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated exposure by ingestion, skin absorption, or inhalation may

cause kidney and liver damage, weight loss and may also affect the skin,

gastrointestinal tract, lungs, and central nervous system/nervous system. Symptoms may include vertigo, fainting, fatigue, insomnia, nervousness, tremors, mental disturbances, headache, cough, muscle aches and pain, difficulty swallowing, excess salivation, diarrhea, nausea, vomiting, lack of appetite or anorexia, pallor, partial paralysis, ochronosis, albuminuria, and dark urine, hepatitis, fatty liver degeneration.

Prolonged skin contact may cause allergic dermatitis...

Sensitization: May cause sensitization by skin contact

Mutagenic Effects: May affect genetic material based on animal test data

No human data found

Carcinogenic effects: Not classifiable as a human carcinogen.

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
m-Cresol	A4 Not Classifiable as a Human Carcinogen	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

Reproductive toxicity

No data is available

Product code: C2773 Product name: METACRESOL, USP 8 / 13

Reproductive Effects: No information on reproductive toxicity effects on humans was found. Reproductive

effects of cresols administered to rats and mice in diet were limited to mild to moderate unterine atrophy and lengthening of estrus cycle at the highest dose levels tested (>2000 mg/kg/day). No adverse effects on sperm motility or concentration

were observed.

Developmental Effects:

No information on developmental toxicity effects on humans was found

Developmental studies that treated rats and rabbits by oral gavage during gestation observed fetal effects (skeletal variations and delayed ossification) at dose levels that

also cause maternal toxicity.

Teratogenic Effects:

No information available

Specific Target Organ Toxicity

STOT - single exposure

lungs. respiratory system.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Target Organs:

Central nervous system. Liver. Kidneys. Lungs. Respiratory system. Skin. Eyes.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

m-Cresol - 108-39-4

Freshwater Fish Species Data: 10 - 13.6 mg/L LC50 Lepomis macrochirus 96 h 1

15.9 mg/L LC50 Brachydanio rerio 96 h static 1 23.12 mg/L LC50 Poecilia reticulata 96 h semi-static 1 55.9 mg/L LC50 Pimephales promelas 96 h flow-through 1 8.9 mg/L LC50 Oncorhynchus mykiss 96 h flow-through 1

Water Flea Data: 18.8 mg/L LC50 Daphnia magna 48 h

Persistence and degradability: Readily biodegradable

Bioaccumulative potential: Potential for bioconcentration in aquatic organisms is low.

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
m-Cresol	None	None	None	None

14. TRANSPORT INFORMATION

Product code: C2773 Product name: METACRESOL, USP 9 / 13

14. TRANSPORT INFORMATION

DOT

UN-No: UN2076
Proper Shipping Name: Cresols, liquid

Hazard Class: 6.1 Subsidiary Risk: 8 Packing Group: II ERG No: 153

Marine Pollutant

DOT RQ (lbs):

No data available

No information available

Symbol(s): R3

TDG (Canada)

UN-No: UN2076
Proper Shipping Name: UN2076
Cresols, liquid

Hazard Class: 6.1 Subsidiary Risk: (8) Packing Group: II

Description: No information available

ADR

UN-No: UN2076
Proper Shipping Name: Cresols, liquid

Hazard Class: 6.1
Packing Group: II
Subsidiary Risk: 8

Classification Code:

Description:

CEFIC Tremcard No:

No information available
No information available
No information available

IMO / IMDG

UN-No: UN2076
Proper Shipping Name: UN2076
Cresols, liquid

Hazard Class: 6.1 Subsidiary Risk: 8 Packing Group: II

Description:No information availableIMDG Page:No information availableMarine PollutantNo information available

EMS: F-A

MFAG: No information available Maximum Quantity: No information available

RID

UN-No: UN2076
Proper Shipping Name: UN2076
Cresols, liquid

Hazard Class: 6.1 Subsidiary Risk: 8 Packing Group: II

Classification Code: No information available Description: No information available

ICAO

UN-No: UN2076
Proper Shipping Name: Cresols, liquid

Hazard Class: 6.1 Subsidiary Risk: 8 Packing Group: II

Product code: C2773 Product name: METACRESOL, USP 10 / 13

14. TRANSPORT INFORMATION

Description: No information available

IATA

UN-No: UN2076
Proper Shipping Name: Cresols, liquid

Hazard Class: 6.1
Subsidiary Risk: 8
Packing Group: II
ERG Code: 6C

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
m-Cresol	Present	Present KE- 24793	Present	Present (4)-57 (3)-499	Present	Present	Present 203-577-9

U.S. Regulations

m-Cresol

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: Present

New Jersey (EHS) List: Present

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present New York Release Reporting - List of Hazardous Substances:

1000 lb RQ 1 lb RQ

Louisana Reportable Quantity List for Pollutants: 100lbfinal RQ

45.4kgfinal RQ

California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity		Female Reproductive Toxicity:
m-Cresol	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

· ·	Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Chemical Category	Section 313 - Reporting de minimis
	100 lb final RQ 45.4 kg final RQ	None	None		1.0 % de minimis concentration

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
m-Cresol	Not Applicable	10/04/1982 10/04/1992

Product code: C2773 Product name: METACRESOL, USP 11 / 13

Canada

WHMIS hazard class:

B3 Combustible liquid D1A Very toxic materials E Corrosive material

m-Cresol

B3 D1A E

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
m-Cresol	1 %

Inventory

Components	Canada (DSL)	Canada (NDSL)
m-Cresol	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory	
		Reporting	
m-Cresol	Not listed	Not listed	

EU Classification

R-phrase(s)

R34 - Causes burns.

R24/25 - Toxic in contact with skin and if swallowed.

S -phrase(s)

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 1/2 - Keep locked up and out of the reach of children.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
m-Cresol	T; R24/25	No information	S1/2 S36/37/39 S45
	C; R34		

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T - Toxic

C - Corrosive.





Product code: C2773 Product name: METACRESOL, USP 12 / 13

16. OTHER INFORMATION

Preparation Date:3/24/2015Revision Date:3/24/2015Prepared by:Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: C2773 Product name: METACRESOL, USP 13 / 13





Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
320	Health Hazard 3 Fire Hazard 2	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	m-cresol		alog mber(s).	C2773, YY246, C1367
		CA	S#	108-39-4
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RT	ECS	GO6125000
14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSO	CA	TSCA 8(b) inventory: Meta-cresol
Commercial Name(s)	Not available.			Not available.
Synonym	1-Hydroxy-3-methylbenzene; 3-Cresol; 3-Hydroxytoluene; 3-Methylphenol; m-Cresole; m-Cresylic acid; m-Hydroxytoluene; m-Kresol; m-Methylphenol; m-Oxytoluene; m-Toluol; phenol, 3-methyl-; Metacresol			
Chemical Name	meta-Cresol			
Chemical Family	Not available.		LL (310) 5	16-8000
Chemical Formula	C7H8O			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248			

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) {Meta-}cresol		108-39-4	22			100
Toxicological Data on Ingredients	Meta-cresol: ORAL (LD50):	Acute: 242 mg	/kg [Rat]. 828 mg/k	a [Mouse].		

Section 3. Hazards Identification

DERMÀL (LD50):

Potential Acute Health Effects

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive). Slightly hazardous in case of skin contact (sensitizer). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Acute: 2050 mg/kg [Rabbit]. 1100 mg/kg [Rat].

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m-cresol	Page Number: 2
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, lungs, liver, skin, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First A	Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.		
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.		
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.		
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.		
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.		
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.		
Serious Ingestion	Not available.		

Section 5. Fire and Ex	xplosion Data
Flammability of the Product	Combustible.
Auto-Ignition Temperature	558°C (1036.4°F)
Flash Points	CLOSED CUP: 86℃ (186.8年).
Flammable Limits	LOWER: 1.1%
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	When heated to decomposition it emits highly toxic fumes. When heated to decomposition it emits irritating fumes.
Special Remarks on Explosion Hazards	Avoid loading together with explosives

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Section 6. Accidental Release Measures		
Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.	
Large Spill	Combustible material. Corrosive liquid. Poisonous liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	

Section 7. Har	Section 7. Handling and Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.		
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Sensitive to light. Store in light-resistant containers. Air Sensitive Hygroscopic		

Section 8. Exposure Controls/Personal Protection				
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.			
Personal Protection	Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.			
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.			
Exposure Limits	TWA: 20 (mg/m³) from ACGIH (TLV) [United States] TWA: 5 (ppm) from OSHA (PEL) [United States] TWA: 2.3 from NIOSH [United States] TWA: 10 (mg/m³) from NIOSH [United States] TWA: 5 STEL: 10 (ppm) [Canada] TWA: 20 (mg/m³) [Canada] Consult local authorities for acceptable exposure limits.			

Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Liquid.	Odor	Phenolic-like odor. Odor of coal tar. Sweet, tarry odor
Molecular Weight	108.14 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Colorless. Yellowish. Colorless to light yellow.
Boiling Point	202℃ (395.6뚜)		
Melting Point	11.5℃ (52.7℉)		
Critical Temperature	342.6℃ (648.7℉)		
Specific Gravity	1.034 (Water = 1)		
Vapor Pressure	0 kPa (@ 25℃)		
Vapor Density	3.72 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil	/water) = 2	
Ionicity (in Water)	Not available.		

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Dispersion Properties	See solubility in water, diethyl ether, acetone.	
Solubility	Miscible in diethyl ether, acetone. Partially soluble in cold water Soluble in about 40 parts water. Miscible in ethanol	

	modelo in otherion.			
Section 10. Stability and Reactivity Data				
Stability	The product is stable.			
Instability Temperature	Not available.			
Conditions of Instability	Heat, ignition sources, incompatible materials, light, air			
Incompatibility with various substances	Reactive with oxidizing agents, acids.			
Corrosivity	Non-corrosive in presence of glass.			
Special Remarks on Reactivity	Also incompatible with organic peroxides. Avoid loading together with explosives. Crystals or liquid darken with exposure to air or light Air and light sensitive. Hygroscopic; keep container tightly closed.			
Special Remarks on Corrosivity	Not available.			
Polymerization	Will not occur.			

Polymerization	Will not occur.		
Section 11. Toxicolo	ogical Information		
Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.		
Toxicity to Animals	Acute oral toxicity (LD50): 242 mg/kg [Rat]. Acute dermal toxicity (LD50): 1100 mg/kg [Rat]. Acute inhalation toxicity of the mist (LC50): >710 mg/m³ 1 hours [Rat].		
Chronic Effects on Humans	CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. May cause damage to the following organs: kidneys, lungs, liver, skin, central nervous system (CNS).R68-		
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant), of ingestion, . Hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive), of inhalation (lung corrosive). Slightly hazardous in case of skin contact (sensitizer).		
Special Remarks on Toxicity to Animals	Not available.		
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects based on animal test data. May affect genetic material (mutagenic).		
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes severe irritation and burns. Skin contact with cresols has resulted in skin blanching, skin peeling, burning sensation, erythema, localized anesthesia (numbness), and occasionally, ochronosis, a darkening of the skin. It is also absorbed through the skin. When absorbed through the skin it can produce systemic effects such facial peripheral neuritis, damage to internal organs, including loss of kidney function and necrosis of the liver and kidneys. Serious or even fatal poisoning may result if large areas of the skin are wet with cresol and it is not removed immediately. Hypersensitivity may also occur. Eyes: Causes severe irritation and burns. Inhalation: It is extremely destructive to the tissue of the mucous membrane and upper respiratory tract. Inhalation may result in spasm, inflammation, and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness		

Ingestion: Can cause burning pain in mouth and throat. White necrotic lesions in mouth, esophagus, and stomach, abdominal pain, peritonitis, nausea, vomiting, bloody diarrhea, dyspnea, pallor, sweating, central nervous system disturbances (somnolence, convulsions, headache, dizziness), tinnitus. Acute ingestion may lead to shock with cardiovascular disturbances (weak irregular pulse, tachycardia, hypotension), shallow respirations, cyanosis, pallor, profound fall in body temperature, possible fleeting excitement and confusion followed by unconciousness. Other symptoms of acute ingestion may include stentorous breathing, mucous rales, rhonchi, frothing at nose and mouth and other signs of pulmonary edema, characteristic odor of phenol on the breath, impairment of kidney function (renal necrosis, nephritis, acute renal failure with scanty, dark-colored urine (oliquria, anuria), hematuria), moderately severe renal insufficiency), impairment of liver

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of breath, headache, nausea.

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function, Methemoglobinemia, Heinz body hemolytic anemia, hyperbilirubinemia. Death from respiratory, circulatory or cardiac failure may occur.

Chronic Potential Health Effects:

Prolonged or repeated exposure by ingestion, skin absorption, or inhalation may cause kidney and liver damage, weight loss and may also affect the skin, gastrointestinal tract, lungs, and central nervous system/nervous system. Symptoms may include vertigo, fainting, fatigue, insomnia, nervousness, tremors, mental disturbances, headache, cough, muscle aches and pain, difficulty swallowing, excess salivation, diarrhea, nausea, vomiting, lack of appetite or anorexia, pallor, partial paralysis, ochronosis, albuminuria, and dark urine, hepatitis, fatty liver degeneration.

Prolonged skin contact may cause allergic dermatitis.

Section 12. Ecological Information				
Ecotoxicity	Not available.			
BOD5 and COD	Not available.			
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.			
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.			
Special Remarks on the Products of Biodegradation	Not available.			

Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

DOT Classification CLASS 6.1: Poisonous material. Class 8: Corrosive material

UNNA: 2076 : Cresol, liquid PG: II

Special Provisions for Transport Not available.

DOT (Pictograms)

Identification





Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations New York release reporting list: m-cresol

Pennsylvania RTK: m-cresol Massachusetts RTK: m-cresol Massachusetts spill list: m-cresol

New Jersey: m-cresol
New Jersey spill list: m-cresol
Louisiana spill reporting: m-cresol

California Director's List of Hazardous Substances: m-cresol

TSCA 8(b) inventory: m-cresol

TSCA 4(a) proposed test rules: m-cresol

TSCA 8(a) IUR: m-cresol

TSCA 8(d) H and S data reporting: m-cresol: Effective date: 10/04/82; Sunset date: 10/04/92

SARA 313 toxic chemical notification and release reporting: m-cresol CERCLA: Hazardous substances.: m-cresol: 100 lbs. (45.36 kg)

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Camornia Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California ha found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California ha found to cause birth defects which would require a warning under the statute: No products were found.					
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 203-577-9). Canada: Listed on Canadian Domestic Substance List (DSL). Canada: Disclosure at 1.0% according the the Ingredient Disclosure List China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Listed on AICS.					
Other Classifications	WHMIS (Canada)	(200℉).	combustible liquid with a Material causing immed rosive liquid.	·		, ,
	DSCL (EEC)	R24/25- Toxic and if swallowe R34- Causes b		gloves and eg S45- In case	ye/face pro of accider advice im	ole protective clothing, otection. It or if you feel unwell, amediately (show the
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection		ional Fire Protection ociation (U.S.A.)	n Health	3 0	Flammability Reactivity Specific hazard
WHMIS (Canada) (Pictograms)						
DSCL (Europe) (Pictograms)						
TDG (Canada) (Pictograms)						
ADR (Europe) (Pictograms)						
Protective Fauinment	00 01=					

Protective Equipment



Gloves.



Full suit.



Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

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	Face shield.	

Section 16. C	Other Information	
MSDS Code	C4772	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/9/2013.		Verified by Sonia Owen.
		Printed 8/9/2013.
CALL (310) 516-80	00	

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.