

# SAFETY DATA SHEET

Creation Date 09-Oct-2014

Revision Date 30-Jun-2022

**Revision Number** 6

## 1. Identification

## **Product Name**

## p-Cresol

106-44-5

## Cat No. :

# AC110590000; AC110590050; AC110591000; AC110595000

CAS No **Synonyms** 

**Recommended Use** Laboratory chemicals. Uses advised against

Food, drug, pesticide or biocidal product use.

4-Hydroxytoluene; 4-Methylphenol

## Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

## **Emergency Telephone Number**

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

## 2. Hazard(s) identification

## Classification

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

Acute oral toxicity Acute dermal toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 3 Category 3 Category 1 B Category 1 Category 3

## Label Elements

Signal Word Danger

Hazard Statements

Causes severe skin burns and eye damage May cause respiratory irritation Toxic if swallowed or in contact with skin



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

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

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

Use only outdoors or in a well-ventilated area

## Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

## Skin

Wash contaminated clothing before reuse

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

## Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion

## Rinse mouth

Do NOT induce vomiting

## Storage

## Store locked up

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

## Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects

## 3. Composition/Information on Ingredients

Compon	ent	CAS No	Weight %
p-Cresol		106-44-5	<=100
	4.	First-aid measures	
General Advice	Show this s required.	afety data sheet to the doctor in attend	lance. Immediate medical attention is
Eye Contact	<b>ye Contact</b> Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes medical attention.		
Skin Contact	Wash off im attention is	nmediately with plenty of water for at lear required.	ast 15 minutes. Immediate medical
Inhalation			respiration. Do not use mouth-to-mouth ; give 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.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Notes to Physician	Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media	Water mist may be used to cool closed containers. CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	89 °C / 192.2 °F
Method -	No information available
Autoignition Temperature	555 °C / 1031 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available 1.1% @ 150°C t No information available No information available

## **Specific Hazards Arising from the Chemical**

The product causes burns of eyes, skin and mucous membranes. Combustible material. Containers may explode when heated.

## **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Thermal decomposition can lead to release of irritating gases and vapors. **Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 3	Flammability 2	Instability 1	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions	Use personal protective equipment as required. Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid dust formation. Remove all sources of ignition. Take precautionary measures against static discharges.			
Environmental Precautions	Do not flush into surface w	ater or sanitary sewer system.		
Methods for Containment and Cle Up	ean Sweep up and shovel into all sources of ignition.	suitable containers for disposal.	Avoid dust formation. Remove	

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe (dust, vapor, mist, gas). Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.

#### Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from heat, sparks and flame. Protect from direct sunlight. Flammables area. Store under an inert atmosphere. Protect from moisture. Incompatible Materials. Acids. Bases. Strong oxidizing agents.

## 8. Exposure controls / personal protection

## Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
p-Cresol	TWA: 20 mg/m <sup>3</sup>		IDLH: 250 ppm	TWA: 20 mg/m <sup>3</sup>
	Skin		TWA: 2.3 ppm	
			TWA: 10 mg/m <sup>3</sup>	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Tight sealing safety goggles. Face protection shield.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

0	Dhysical and chamical properties	

9	. Physical and chemical properties
Physical State	Solid
Appearance	Light yellow
Odor	phenolic
Odor Threshold	No information available
рН	Not applicable
Melting Point/Range	32 - 34 °C / 89.6 - 93.2 °F
Boiling Point/Range	202 °C / 395.6 °F @ 760 mmHg
Flash Point	89 °C / 192.2 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	1.1% @ 150°C
Vapor Pressure	0.2 hPa @ 20 °C
Vapor Density	Not applicable
Specific Gravity	1.034
Solubility	Soluble in water
Partition coefficient; n-octanol/wate	r No data available
Autoignition Temperature	555 °C / 1031 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C7 H8 O

Molecular Weight 108.14				
	10. Stability and reactivity			
Reactive Hazard	None known, based on information available			
Stability	Light sensitive. Hygroscopic. Air sensitive.			
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to light. Exposure to moist air or water. Exposure to air.			
Incompatible Materials	Acids, Bases, Strong oxidizing agents			
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Thermal decomposition can lead to release of irritating gases and vapors				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			
11. Toxicological information				

## Acute Toxicity

#### Product Information Component Information

Component Information	ation						
Componer	nt	LD50 Oral		LD50 Dermal	LC50 I	nhalation	
p-Cresol	p-Cresol LD		at) LD50 =	) LD50 = 300 mg/kg (Rabbit)		LC50 > 710 mg/m3 (Rat) 1 h	
Foxicologically Syn	ergistic	No information ava	ilable				
Products							
Delayed and immed	liate effects	as well as chronic effect	cts from short an	d long-term exposu	ure		
rritation		Causes burns by a	Il exposure routes				
Sensitization		No information ava	ilable				
Carcinogenicity		The table below inc	dicates whether ea	ach agency has listed	d any ingredient a	as a carcinogen.	
Component	CAS N	o IARC	NTP	ACGIH	OSHA	Mexico	
p-Cresol	106-44-	5 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	No information available				
Reproductive Effec	ts	No information ava	No information available.				
Developmental Effects No information available.							
Teratogenicity	ogenicity No information available.						
STOT - single exposureRespiratory systemSTOT - repeated exposureNone known							
Aspiration hazard	spiration hazard No information available						
Symptoms / effects,both acute and delayedProduct is a corrosive material. Use of gastric lavage or emesis is contraindicated Possible perforation of stomach or esophagus should be investigated: Ingestion of severe swelling, severe damage to the delicate tissue and danger of perforation: So of overexposure may be headache, dizziness, tiredness, nausea and vomiting					estion causes ration: Symptom		

Endocrine Disruptor Information No information available

## **Other Adverse Effects**

The toxicological properties have not been fully investigated.

## 12. Ecological information

## Ecotoxicity

The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
p-Cresol	Not listed	LC50: = 7.5 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: = 19 mg/L, 96h static (Pimephales promelas) LC50: 15.9 - 17 mg/L, 96h flow-through (Pimephales promelas)	EC50 = 2.31 mg/L 15 min	EC50: = 21.1 mg/L, 48h (Daphnia magna)

Persistence and Degradability

Persistence is unlikely

**Bioaccumulation/ Accumulation** 

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
p-Cresol	1.94

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	
UN-No	UN3455
Proper Shipping Name	CRESOLS, SOLID
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	11
TDG	
UN-No	UN3455
Proper Shipping Name	CRESOLS, SOLID
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	II
IATA	
UN-No	UN3455
Proper Shipping Name	CRESOLS, SOLID
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN3455
Proper Shipping Name	CRESOLS, SOLID
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
p-Cresol	106-44-5	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

## TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

## International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
p-Cresol	106-44-5	Х	-	203-398-6	Х	Х	Х	Х	Х	KE-24794

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

## U.S. Federal Regulations

## SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
p-Cresol	106-44-5	<=100	1.0

SARA 311/312 Hazard Categories See section 2 for more information

#### **CWA (Clean Water Act)**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
p-Cresol	Х	-	-	-

## **Clean Air Act**

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
p-Cresol	Х		-

**OSHA** - Occupational Safety and Not applicable Health Administration

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
p-Cresol	100 lb	-

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
p-Cresol	Х	Х	Х	Х	-

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	Y N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade Slight risk, Grade 1

## Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
p-Cresol	106-44-5	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

## Safety, health and environmental regulations/legislation specific for the substance or mixture

106-44-5

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
p-Cresol	106-44-5	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
oomponent	CAO NO	(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste)
			Qualifying Quantities	· · ·	(
		for Major Accident	for Safety Report		
		Notification	Requirements		

Not applicable

Not applicable

Not applicable

Not applicable

16. Other information	
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	09-Oct-2014
Revision Date	30-Jun-2022
Print Date	30-Jun-2022
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

#### Disclaimer

p-Cresol

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## End of SDS