

SAFETY DATA SHEET

Creation Date 03-Dec-2010

Revision Date 29-Mar-2024

Revision Number 3

1. Identification

Product Name

4-Chlorophenol

Cat No. : A15602

CAS No **Synonyms**

No information available **Recommended Use** Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

106-48-9

Details of the supplier of the safety data sheet

Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information US call: 001-800-227-6701 / 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 Acute Inhalation Toxicity - Dusts and Mists Category 4 Category 4 Category 4

Label Elements

Signal Word Warning

Hazard Statements

Harmful if swallowed, in contact with skin or if inhaled



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 Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Response Get medical attention/advice if you feel unwell Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse Indestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage

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

Store locked up **Disposal**

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS No	Weight %
p-Chlorophenol	106-48-9	>97
	4. First-aid measure	es
General Advice	If symptoms persist, call a physician.	
Eye Contact	Rinse immediately with plenty of water, a medical attention.	also under the eyelids, for at least 15 minutes. Get
Skin Contact	Wash off immediately with plenty of wate call a physician.	er for at least 15 minutes. If skin irritation persists,
Inhalation	Remove to fresh air. If not breathing, give symptoms occur.	e artificial respiration. Get medical attention if
Ingestion	Clean mouth with water and drink afterwark symptoms occur.	vards plenty of water. Get medical attention if
Most important symptoms and	Difficulty in breathing. Inhalation of high	vapor concentrations may cause symptoms like

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effects Notes to Physician	headache, dizziness, tiredn Treat symptomatically	ess, nausea and vomiting	
	5. Fire-fightin	g measures	
Suitable Extinguishing Media	Water spray, carbon dioxide	e (CO2), dry chemical, alcoho	I-resistant foam.
Jnsuitable Extinguishing Media	No information available		
Flash Point	102 °C / 215.6 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No information available No data available No data available t No information available No information available		
Specific Hazards Arising from the C Keep product and empty container aw		ignition.	
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxid Protective Equipment and Precaution As in any fire, wear self-contained bre protective gear.	ons for Firefighters	emand, MSHA/NIOSH (approv	ved or equivalent) and full
NFPA Health 4	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	Use personal protective equipotential formation.	uipment as required. Ensure a	adequate ventilation. Avoid dust
Environmental Precautions		ater or sanitary sewer system.	
Methods for Containment and Clea Up	n Sweep up and shovel into s containers for disposal.	uitable containers for disposa	II. Keep in suitable, closed
	7. Handling a	and storage	
Handling			ure adequate ventilation. Do not nhalation. Avoid dust formation.
Storage.			iner tightly closed. Keep under is. Acid anhydrides. Acid chlorides
8. E:	xposure controls /	personal protecti	on
Exposure Guidelines		ain any hazardous materials w ion specific regulatory bodies.	
Engineering Measures		n, especially in confined areas se to the workstation location.	s. Ensure that eyewash stations

Personal Protective Equipment

Eye/face Protection	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 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.
Recommended Filter type:	Type A. Brown.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical a	Ind chemical properties
Physical State	Solid
Appearance	Beige
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	41 - 45 °C / 105.8 - 113 °F
Boiling Point/Range	220 °C / 428 °F
Flash Point	102 °C / 215.6 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	0.13 mbar @ 20 °C
Vapor Density	Not applicable
Specific Gravity	1.260
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 300°C
Viscosity	Not applicable
Molecular Formula	C6 H5 CI O
Molecular Weight	128.56
10. Stat	bility and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions. Air sensitive.
Conditions to Avoid	Exposure to air. Incompatible products.
Incompatible Materials	Strong oxidizing agents, Acid anhydrides, Acid chlorides
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen chloride
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Componen	t	LD50 Oral		LD50 Dermal	LC50	Inhalation		
p-Chlorophenol I		LD50 = 500 mg/kg (Ra	LD50 = 500 mg/kg (Rat) LD50 = 1500 mg/kg (Rat		LC50 = 1.01 mg/L (Rat)			
Foxicologically Syn Products	-	No information avail						
Delayed and immed	iate effects a	as well as chronic effect	ts from short an	d long-term expos	sure			
rritation		No information avail	able					
Sensitization		No information avail	able					
Carcinogenicity		The table below indi	icates whether ea	ach agency has liste	ed any ingredient	as a carcinogei		
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
p-Chlorophenol	106-48-9	Not listed	Not listed	Not listed	Not listed	Not listed		
Iutagenic Effects		Not mutagenic in AN	Not mutagenic in AMES Test					
Reproductive Effect	s	No information avail	able.					
Developmental Effe	cts	No information avail	able.					
Feratogenicity		No information avail	able.					
STOT - single expos STOT - repeated ex		None known None known						
		No information available						
Aspiration hazard			able					
Aspiration hazard Symptoms / effects Jelayed	,both acute		apor concentratio	ns may cause symp	otoms like headac	he, dizziness,		
· Symptoms / effects	,	and Inhalation of high va tiredness, nausea a	apor concentratio nd vomiting	ns may cause symp	otoms like headac	he, dizziness,		

12. Ecological information

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

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
p-Chlorophenol	EC50: = 8.3 mg/L, 72h static	LC50: 5.43 - 6.87 mg/L, 96h	EC50 = 0.96 mg/L 5 min	EC50: 2.3 - 2.7 mg/L, 48h
	(Desmodesmus	flow-through (Pimephales	EC50 = 1.07 mg/L 30 min	Static (Daphnia magna)
	subspicatus)	promelas)	EC50 = 8.3 mg/L 1 h	
	EC50: = 8 mg/L, 96h static	LC50: 3.1 - 4.8 mg/L, 96h		
	(Desmodesmus	static (Lepomis macrochirus)		
	subspicatus)	LC50: = 1.91 mg/L, 96h		
	EC50: = 38 mg/L, 96h static	flow-through (Oncorhynchus		
	(Pseudokirchneriella	mykiss)		
	subcapitata)	LC50: 3.4 - 4.3 mg/L, 96h		
	EC50: 2.29 - 41.7 mg/L, 96h	static (Pimephales		
	(Pseudokirchneriella	promelas)		
	subcapitata)	LC50: = 5.6 mg/L, 96h		
	EC50: 3.34 - 18.7 mg/L, 72h	(Brachydanio rerio)		
	(Pseudokirchneriella	LC50: 3.7 - 6.6 mg/L, 96h		
	subcapitata)	static (Oryzias latipes)		
		LC50: = 9 mg/L, 96h		
		semi-static (Poecilia		
		reticulata)		

Persistence and Degradability	Soluble in water Persisten	ce is unlikely bas	ed on information ava	ailable.		
Bioaccumulation/ Accumulation	No information available. . Will likely be mobile in the environment due to its water solubility.					
Mobility						
Compone			log Pow			
p-Chlorophe	enol		2.39			
	13. Disposal c	onsiderati	ons			
Waste Disposal Methods	Chemical waste generator hazardous waste. Chemic national hazardous waste	cal waste generat	tors must also consult			
	14. Transpor	t informati	on			
DOT	· · · · ·					
UN-No	UN2020					
Proper Shipping Name	CHLOROPHENOLS, SOL	.ID				
Hazard Class	6.1					
Packing Group	III					
TDG						
UN-No	UN2020					
Proper Shipping Name	CHLOROPHENOLS, SOL	.ID				
Hazard Class	6.1					
Packing Group	III					
<u>IATA</u>						
UN-No	UN2020					

United States of America Inventory

Proper Shipping Name

Proper Shipping Name

Hazard Class

Hazard Class

Packing Group

IMDG/IMO UN-No

Packing Group

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
p-Chlorophenol	106-48-9	Х	ACTIVE	-

15. Regulatory information

CHLOROPHENOLS, SOLID

CHLOROPHENOLS, SOLID

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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-Chlorophenol	106-48-9	Х	-	203-402-6	Х	Х	Х	Х	Х	KE-05804

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

U.S. Federal Regulations

SARA 313

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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-Chlorophenol	Х	Х	Х	-	Х
U.S. Department of Trans Reportable Quantity (RQ):	•				
DOT Marine Pollutant	N				
DOT Severe Marine Pollut	tant N				
U.S. Department of Hom Security	eland This pro	oduct does not conta	in any DHS chemicals	5.	
Other International Regu	<u>llations</u>				
Mexico - Grade	No infor	mation available			
Authorisation/Restriction	ns according to EU	REACH N	lot applicable		
Common and				CII (4007/000C)	DEACH Description (EC

	Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
ſ	p-Chlorophenol	106-48-9	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
p-Chlorophenol	106-48-9	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
p-Chlorophenol	106-48-9	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information		
Prepared By Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	03-Dec-2010 29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.	

Disclaimer

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