

SAFETY DATA SHEET

Revision Date 18-Jan-2018

Revision	Number	3
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1. Identification		
Product Name	2,4-Dichlorophenol	
Cat No. :	AC147720000; AC147720050; AC147721000; AC147725000	
CAS-No Synonyms	120-83-2 2,4-DCP.; 2,4-Dichlorohydroxybenzene	
Recommended Use Uses advised against Details of the supplier of the	Laboratory chemicals. Food, drug, pesticide or biocidal product use. e safety data sheet	
<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410	
Emergency Number US:001-2	ber 300-ACROS-01 / Europe call: +32 14 57 52 11 201-796-7100 / Europe: +32 14 57 52 99 -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)

Category 4
Category 3
Category 3
Category 1
Category 1
Category 1B
Category 3
Yes

Label Elements

Signal Word Danger

Hazard Statements

May form combustible dust concentrations in air Harmful if swallowed Toxic in contact with skin Causes severe skin burns and eye damage May cause respiratory irritation Toxic if inhaled May cause cancer



Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray 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 Eves 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)

Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
2,4-Dichlorophenol	120-83-2	99

4. First-aid measures

Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated

	clothes and shoes. Immediate medical attention is required.
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If possible drink milk afterwards.
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
Notes to Physician	Treat symptomatically
	5 Fire-fighting measures

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	113 °C / 235.4 °F
Method -	No information available
Autoignition Temperature	653 °C / 1207.4 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available

Specific Hazards Arising from the Chemical

Dust can form an explosive mixture with air. Fine dust dispersed in air may ignite.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Chlorine. Hydrogen chloride gas.

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.

NFPA Health 3	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rel	lease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Do not flush into surface water or sanitary sewer system.		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage
Handling	Do not breathe dust. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Wash thoroughly after handling.
Storage	Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Keep

8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

9. Physical and chemical properties

Physical State	Solid
Appearance	Beige
Odor	aromatic
Odor Threshold	No information available
рН	No information available
Melting Point/Range	41 - 44 °C / 105.8 - 111.2 °F
Boiling Point/Range	209 - 210 °C / 408.2 - 410 °F @ 760 mmHg
Flash Point	113 °C / 235.4 °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	18.5 mbar @ 100 °C
Vapor Density	Not applicable
Specific Gravity	1.382
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	653 °C / 1207.4 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C6 H4 Cl2 O
Molecular Weight	163

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Incompatible products.

Incompatible Materials	Acids, Acid anhydrides, Acid chlorides
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO $_2$), Chlorine, Hydrogen chloride gas
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Informa	ation						
Componer	nt	LD50 Oral		LD50 Dermal	LC50	Inhalation	
2,4-Dichloroph	ienol	LD50 = 2830 mg/kg(Ra	at) LD50	= 780 mg/kg (Rat)	N	ot listed	
Toxicologically Syn Products	•	No information avail					
Delayed and immed	liate effects	as well as chronic effect	ts from short ar	nd long-term exposit	ure		
Irritation		No information avail	lable				
Sensitization		No information avail	lable				
Carcinogenicity		The table below ind	icates whether e	ach agency has liste	d any ingredient	as a carcinogen.	
Component	CAS-N	D IARC	NTP	ACGIH	OSHA	Mexico	
2,4-Dichlorophenol	120-83-	2 Group 2B	Not listed	Not listed	Х	Not listed	
Mutagenic Effects		No information avail	lable				
Reproductive Effect	ts	No information avail	No information available.				
Developmental Effe	ects	No information avail	No information available.				
Teratogenicity		No information avail	No information available.				
STOT - single exposision STOT - repeated ex		Respiratory system None known	Respiratory system				

Symptoms / effects,both acute and delayed 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

No information available

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information	
2,4-Dichlorophenol	Group II Chemical	Not applicable	Not applicable	
Other Adverse Effects				

12. Ecological information

Ecotoxicity

Aspiration hazard

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
2,4-Dichlorophenol	EC50: = 14 mg/L, 96h static	LC50: 4.5 - 8.3 mg/L, 96h	EC50 = 1.10 mg/L 5 min	EC50: 1.2 - 1.7 mg/L, 48h

	(Pseudokirchneriella	static (Oryzias latipes)	EC50 = 1.18 mg/L 15 min	(Daphnia magna)
	subcapitata)	LC50: 7.4 - 8.8 mg/L, 96h	EC50 = 1.24 mg/L 30 min	
ECS	50: = 9.2 mg/L, 96h static	flow-through (Pimephales	EC50 = 15 mg/L 60 h	
	(Chlorella vulgaris)	promelas)	EC50 = 75 mg/L 30 min	
		LC50: 1.6 - 2.6 mg/L, 96h	-	
		static (Lepomis macrochirus)		
		LC50: = 5.5 mg/L, 96h		
		semi-static (Poecilia		
		reticulata)		
		LC50: 2.182 - 3.108 mg/L,		
		96h semi-static		
		(Oncorhynchus mykiss)		
		LC50: = 2.6 mg/L, 96h		
		flow-through (Oncorhynchus		
		mykiss)		
		LC50: = 3.9 mg/L, 96h static		
		(Brachydanio rerio)		
sistence and Degradabil	ity Persistence is	s unlikely		

Bioaccumulation/ Accumulation

No information available.

Mobility

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

Component	log Pow
2,4-Dichlorophenol	3.08

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.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
2,4-Dichlorophenol - 120-83-2	U081	-

	14. Transport information
DOT	
UN-No	UN2928
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	
TDG	
UN-No	UN2928
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	
IATA	
UN-No	UN2928
Proper Shipping Name	TOXIC SOLID, CORROSIVE, ORGANIC, N.O.S.*
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	
IMDG/IMO	
UN-No	UN2928
Proper Shipping Name	Toxic solid, corrosive, organic, n.o.s.
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
2,4-Dichlorophenol	120-83-2	Х	ACTIVE	Т

Legend:

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

X - Listed

'-' - Not Listed

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

TSCA 12(b) - Notices of Export

Component	CAS-No	TSCA 12(b) - Notices of Export
2,4-Dichlorophenol	120-83-2	Section 4

International Inventories

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

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
2,4-Dichlorophenol	120-83-2	Х	-	204-429-6	Х	Х	Х	Х	KE-10167

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
2,4-Dichlorophenol	120-83-2	99	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
2	2,4-Dichlorophenol	-	-	X	Х

Clean Air Act

Not applicable

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
2,4-Dichlorophenol	100 lb	-
Onliferrate Descentition OF	This product does not contain any Proposition CE ch.	amiaala

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

		-
D	1	
ROUI	lations	

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
2,4-Dichlorophenol	Х	Х	Х	Х	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland

This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade

No information available

16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Revision Date Print Date Revision Summary	18-Jan-2018 18-Jan-2018 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

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