

SAFETY DATA SHEET

Revision Date 10-Feb-2015

Revision Number 1

	1. Identification			
Product Name	2-Chlorobenzoic acid			
Cat No. :	AC159240000; AC159240020; AC159240050; AC159241000; AC159245000			
Synonyms	OCBA			
Recommended Use	Laboratory chemicals.			
Uses advised against Details of the supplier of the safety	No Information available tety data sheet			
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name 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 Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 4 Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

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

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

May form combustible dust concentrations in air

3. Composition / information on ingredients

Component	CAS-No	Weight %		
o-Chlorobenzoic acid	118-91-2	98		
	4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.			
Skin Contact	Wash off immediately with soap and plenty of water. Obtain medical attention.			
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.			
Ingestion	Clean mouth with water. Get medical attention.			
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically			

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 Method -	173 °C / 343.4 °F No information available
Autoignition Temperature Explosion Limits	530 °C / 986 °F
Upper	No data available
Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available It No information available No information available

Specific Hazards Arising from the Chemical

Dust can form an explosive mixture in air.

Hazardous Combustion Products

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

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	Flammability	Instability	Physical hazards		
2	1	0	N/A		
6. Accidental release measures					
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment.				
Environmental Precautions	See Section 12 for additional ecological information.				

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Up

7. Handling and storage				
Handling	Avoid contact with skin and eyes. Do not breathe dust.			
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed.			
8. E	xposure controls / personal protection			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established 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	No protective equipment is needed under normal use conditions.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

9. Physical and chemical properties

Physical State Appearance Odor **Odor Threshold** pН . Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Relative Density** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight**

Powder Solid Off-white Odorless No information available 3.4 0.2 g/l aq.sol 139 - 143 °C / 282.2 - 289.4 °F 285 °C / 545 °F @ 760 mmHg 173 °C / 343.4 °F Not applicable No information available

No data available No data available No information available No information available No information available S30 °C / 986 °F No information available Not applicable C7 H5 CI O2 156.57

10. Stability and reactivity

Reactive Hazard		None known, based on information available					
Stability		Stable under normal conditions.					
Conditions to Avoid	ł	Avoid dust formation	on. Incompatible p	roducts. Exposure	to moisture.		
Incompatible Mater	ials	Strong oxidizing a	gents, Strong base	S			
Hazardous Decomp	osition Products	Hydrogen chloride	gas, Carbon mon	oxide (CO), Carbo	n dioxide (CO2)		
Hazardous Polyme	rization	No information ava	ailable.				
Hazardous Reaction	ns	None under norma	al processing.				
11. Toxicological information							
Acute Toxicity							
Product Information	-	No acute toxicity information is available for this product					
Component Informa Toxicologically Syn		No information available					
Products Delayed and immediate effects as well as chronic effects from short and long-term exposure_							
Irritation		No information available					
Sensitization		No information available					
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.					
Component	CAS-No	IARC NTP ACGIH OSHA Mexico					
o-Chlorobenzoic acid	118-91-2	Not listed	Not listed	Not listed	Not listed	Not listed	

Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	Respiratory system None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delaved	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Do not empty into drains.

Persistence and Degradability Bioaccumulation/ Accumulation		
Mobility Will likely be mobile in the environment due to its water solubility.		
	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.	
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Hazard Class 8 Packing Group III	UN-No	UN3261	
Packing Group III	Proper Shipping Name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.	
	Hazard Class	8	
15. Regulatory information	Packing Group		
	15. Regulatory information		

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
o-Chlorobenzoic acid	Х	Х	-	204-285-4	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

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

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable

SARA 313	Not applicable
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SARA 311/312 Hazardous Categorization	
Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

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

State Right-to-Know Not applicable

U.S. Department of Transportation

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

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

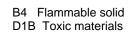
No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2B Toxic materials





Prepared By

16. Other information

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

Revision Date Print Date Revision Summary 10-Feb-2015 10-Feb-2015 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 on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS