

SAFETY DATA SHEET

Revision Date 26-Dec-2021

Revision Number 4

1. Identification

Product Name

2-Chloro-4-methylsulphonylbenzoic acid

Cat No. :

AC425010000; AC425010010; AC425010025

CAS No Synonyms 53250-83-2 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

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)

Serious Eye Damage/Eye Irritation

Category 1

Label Elements

Signal Word Danger

Hazard Statements Causes serious eye damage



Precautionary Statements Prevention

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

Eyes

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

Hazards not otherwise classified (HNOC)

None identified

Upper Lower

3. Composition/Information on Ingredients

Component		CAS No	Weight %				
Benzoic acid, 2-chloro-4-(methy	/Isulfonyl)-	53250-83-2	95				
4. First-aid measures							
Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also unc the eyelids, for at least 15 minutes. Get medical attention.							
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention. Take off contaminated clothing and shoes immediately.						
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required. Get medical attention.						
Ingestion	Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. Clean mouth with water. Get medical attention. If possible drink mill afterwards.						
Most important symptoms and effects	t symptoms and Causes eye burns. Causes severe eye damage.						
Notes to Physician	Treat sympto	at symptomatically					
	5. Fi	re-fighting measures					
Suitable Extinguishing Media		Carbon dioxide (CO ₂). Dry chemical. U o local circumstances and the surroundi					
Unsuitable Extinguishing Media	No information	on available					
Flash Point Method -	No information available No information available						
Autoignition Temperature Explosion Limits	No informatio	on available					
	NI I I	1 - I - I -					

No data available No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Sulfur oxides. 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. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 2	Flammability	Instability	Physical hazards N/A
-	6 Accidental re	lease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation	neuse measures on. Use personal protective equi nal Ecological Information.	pment as required.
Methods for Containment and Cle Up	an Sweep up and shovel into environment.	suitable containers for disposal	. Do not let this chemical enter the
	7. Handling	and storage	
Handling	Remove and wash contan	ninated clothing and gloves, incl	oid contact with skin and clothing. uding the inside, before re-use. assistance. Wash thoroughly after
Storage.		ell-ventilated place. Keep contair g agents. Strong bases. Amines	ner tightly closed. Incompatible . Strong reducing agents. Strong
8. E	· · · ·	/ personal protection	
Exposure Guidelines		tain any hazardous materials wi gion specific regulatory bodies.	th occupational exposure
Engineering Measures		on, especially in confined areas. ety showers are close to the wor	Ventilation systems. Ensure that kstation location.
Personal Protective Equipment			
Eye/face Protection		ve eyeglasses or chemical safet tection regulations in 29 CFR 19	
Skin and body protection	Wear appropriate protectiv	ve gloves and clothing to preven	t skin exposure.
Respiratory Protection	EN 149. Use a NIOSH/MS	or regulations found in 29 CFR 1 SHA or European Standard EN 1 ded or if irritation or other sympto	49 approved respirator if
Hygiene Measures	Handle in accordance with	n good industrial hygiene and sa	fety practice.

9. Physical	and chemical properties
Physical State	Powder Solid
Appearance	Light yellow
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	192 - 193 °C / 377.6 - 379.4 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C8 H7 CI O4 S
Molecular Weight	234.66

10. Stability and reactivity

Reactive Hazard		None known, based on information available						
Stability		Stable under normal conditions.						
Conditions to Avoid	ł	Incompatible produ	ucts.					
Incompatible Mater	ials	Strong oxidizing agents, Strong bases, Amines, Strong reducing agents, Strong acids						
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors monoxide (CO), Carbon dioxide (CO ₂), Sulfur oxides, Hydrogen chloride								
Hazardous Polymer	ization	Hazardous polyme	erization does not o	occur.				
Hazardous Reaction	zardous Reactions None under normal 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 immed	liate effects as w	ell as chronic effe	cts from short an	d long-term expo	sure			
Irritation		No information ava			<u> </u>			
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		
Benzoic acid,	53250-83-2	Not listed	Not listed	Not listed	Not listed	Not listed		

2-chloro-4-(methylsulfo nyl)-							
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	None known None known						
Aspiration hazard	No information available						
Symptoms / effects,both acute and delayed	Symptoms / effects,both acute and No information available delayed						
Endocrine Disruptor Information No information available							
Other Adverse Effects The toxicological properties have not been fully investigated.							
	12. Ecological information						
<u>Ecotoxicity</u> Do not empty into drains							
Persistence and Degradability	Insoluble in water						
Bioaccumulation/ Accumulation	No information available.						
Mobility	Is not likely mobile in the environment due its low 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.						
	14. Transport information						
DOT	Not regulated						

	r4. Transport information					
DOT	Not regulated					
DOT TDG	Not regulated					
<u>IATA</u>	Not regulated					
IMDG/IMO	Not regulated					
	15. Regulatory information					

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzoic acid, 2-chloro-4-(methylsulfonyl)-	53250-83-2	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export 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
Benzoic acid,	53250-83-2	-	-	-	-	Х	Х	-	-	-
2-chloro-4-(methylsulfonyl)-										

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

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (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.
U.S. State Right-to-Know Regulations	Not applicable

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

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	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)
Benzoic acid,	-	Use restricted. See item 75.	-
2-chloro-4-(methylsulfonyl)-		(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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzoic acid, 2-chloro-4-(methylsulfonyl)-	53250-83-2	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	for Major Accident	(2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Benzoic acid, 2-chloro-4-(methylsulfonyl)-	53250-83-2	Notification Not applicable	Requirements Not applicable	Not applicable	Not applicable

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific			
	Email: EMSDS.RA@thermofisher.com			
	Email. EMSDS.RA@Inermonster.com			
Revision Date	26-Dec-2021			
Print Date	26-Dec-2021			
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

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