

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 4-(Chlorosulfonyl)benzoic acid Stock number: A17337 CAS Number: 10130-89-9 EC number: 233-367-Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. Inerrito Fisher Scheman C. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech @alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) EZ GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified No information known. Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms E.F. GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not b Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects E - Corrosive material of the Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 3 Health (acute effects) = 31 Flammability = 1Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 10130-89-9 4-(Chlorosulfonyl)benzoic acid Identification number(s): EC number: 233-367-2 4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. (Contd. on page 2)

(Contd. of page 1)

Product name: 4-(Chlorosulfonyl)benzoic acid

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. For safety reasons unsuitable extinguishing agents Water Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Sulfur oxides (SOX) Hydrogen chloride (HCl) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Environmental precautions: Do not allow product to reach sewage system or any water course.

Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation. **Prevention of secondary hazards:** No special measures required. **Reference to other sections**

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from water/moisture. Store away from strong bases. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data

Exposure controls

Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Tightly sealed goggles Full face protection

Body protection: Protective work clothing

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Product name: 4-(Chlorosulfonyl)benzoic acid

(Contd of page 2)

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9 Physical and chemical propertie	95
Information on basic physical and c	
General Information	
Appearance:	
Form:	Powder
Color:	White to cream
Odor:	Acrid
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	228-232 °C (442-450 °F)
Boiling point/Boiling range:	Not determined
_Sublimation temperature / start:	Not determined
Flammability (solid, gaseous)	Not determined.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion: Explosion limits:	Not determined.
Lower:	Not data main a d
Upper:	Not determined Not determined
Vapor pressure:	Not determined Not applicable.
Density:	Not appression. Not determined
Relative density	Not determined
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Reacts
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
dynamic:	Not applicable.
kinematic: Other information	Not applicable. No further relevant information available.
	No future relevant mornation available.
10 Stability and reactivity	
10 Stability and reactivity	
Reactivity No information known.	
Chemical stability Stable under recor	nmended storage conditions.
Inermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions	
Reacts with strong oxidizing agents	
Reacts with water forming hydrochloric Conditions to avoid No further releva	
Incompatible materials:	
Water/moisture	
Bases	
Oxidizing agents	
Hazardous decomposition products	<u>.</u>
Carbon monoxide and carbon dioxide	
Sulfur oxides (SOx)	
Hydrogen chlòride (HCl)	
11 Toxicological information	
1 Toxicological information	
Information on toxicological effects	

Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information:

Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable.

VPVB: Not applicable. Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.

r OSĤA HazCom 2012	Printing date 11/24/20 Reviewed on 12/17/20
oduct name: 4-(Chlorosulfonyl)benzoic acid	
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	(Contd. of page
4 Transport information	
UN-Number DOT, IMDG, IATA	UN3261
UN proper shipping name DOT	
IMDG, IATA	Corrosive solid, acidic, organic, n.o.s. (4-(Chlorosulfonyl)benzoic acid) CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-(Chlorosulfonyl)benzoic acid
Transport hazard class(es) DOT	
Class Label	8 Corrosive substances. 8
Class Label	8 (C4) Corrosive substances 8
IMDG, IATA	
Class	8 Corrosive substances.
Label Packing group	8
Packing group DOT, IMDG, IATA Environmental hazards:	II Not applicable.
Special precautions for user	Warning: Corrosive substances
EMS Number: Segregation groups	F-A, S-Ă Acids
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	le Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
Marine Pollutant (DOT): UN "Model Regulation": 5 Regulatory information	UN3261, Corrosive solid, acidic, organic, n.o.s. (4-(Chlorosulfonyl)benzoic acid), II
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Product name: 4-(Chlorosulfonyl)benzoic acid

Page 5/5 Printing date 11/24/2015 Reviewed on 12/17/2013

(Contd. of page 4)

USA

IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent CAS: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)