



	Reviewed on 12/11/2006
1 Identification	
Product identifier	
Product name: Methyl 3-(4-chlorosulfonyl)phenylpropionate	
Stock number: L17609 CAS Number: 374537-95-8	
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. 30 Bond Street	
Ward Hill, MA 01835-8099	
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	N 028-0780
) 320-0700.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
\checkmark	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eve Dam 1 H318 Causes serious eve 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	
GHS05	
Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. 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 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	rinsing.
WHMIS classification D2B - Toxic material causing other toxic effects E - Corrosive material	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 3 PIRE 1 Flammability = 1 REACTIVITY Physical 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: 374537-95-8 Methyl 3-(4-chlorosulfonyl)phenylpropionate	
4 First-aid measures	
Description of first aid measures General information Immediately remove any clothing soiled by the product.	
After inhalation	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
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.	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact	

(Contd. of page 1)

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 Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers. 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 Hydrogen chloride (HCl) Sulfur oxides (SOx) 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 material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Use neutralizing agent. 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 oxidizing agents. Store away from strong bases. Store away from water/moisture. 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: Not required. 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 soiled 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. 9 Physical and chemical properties

Information on basic physical and chemical properties General Information Appearance: Form:

Powder

Product name: Methyl 3-(4-chlorosulfonyl)phenylpropionate

		(Contd. of page
	White	
	Not determined Not determined.	
	Not applicable.	
Change in condition		
Melting point/Melting range:	64-65 °C (147-149 °F)	
	Not determined Not determined	
•	Not applicable	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative densitv	Not determined.	
	Not applicable. Not applicable.	
Solubility in / Miscibility with	Not applicable.	
Water:	Hydrolyzes	
Partition coefficient (n-octanol/water): Viscosity:	Not determined.	
dynamic:	Not applicable.	
	Not applicable. No further relevant information available.	
Oxidizing agents		
Bases Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) Sulfur oxides (SOx)		
Bases Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Sulfur oxides (SOX) 1 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a LD/LC50 values that are relevant for cl Skin irritation or corrosion: Causes ser Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects know Germ cell mutagenicity: No effects know Carcinogenicity: No classification data c Reproductive toxicity: No effects knowr Specific target organ system toxicity - Specific target organ system toxicity - Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	vere skin burns. ious eye damage. wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. repeated exposure: No effects known. single exposure: No effects known. s known.	
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Product name: Methyl 3-(4-chlorosulfonyl)phenylpropionate

	(Contd. of page 3)		
14 Transport information			
UN-Number DOT, IMDG, IATA	UN3261		
UN proper shipping name DOT	Corrosive solid, acidic, organic, n.o.s. (Methyl 3-(4-chlorosulfonyl) phenylpropionate)		
IMDG, IATA	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Methyl 3-(4-chlorosulfonyl) phenylpropionate)		
Transport hazard class(es) DOT			
Class Label	8 Corrosive substances.		
Class Label IMDG, IATA	8 (C4) Corrosive substances 8		
Class Label	8 Corrosive substances. 8		
Packing group DOT, IMDG, IATA			
Environmental hazards:	Not applicable.		
Special precautions for user Segregation groups	Warning: Corrosive substances Acids		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.			
Transport/Additional information: DOT			
Marine Pollutant (DOT):	No		
UN "Model Regulation":	UN3261, Corrosive solid, acidic, organic, n.o.s. (Methyl 3-(4-chlorosulfonyl) phenylpropionate), 8, II		
Safety, health and environmental regulations/legislation specific for the su GHS label elements The product is classified and labeled in accordance with 2 Hazard pictograms GHS05	9 CFR 1910 (USHA HUS)		
Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. 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. P405 Dispose of contents/container in accordance with local/regional/national/international regulations.			
National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed.			
Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Annex Substance is not listed.			
16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association ATA: International Maritime Amorganian and the transport Association			
INJUG: International Mantime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association			

Product name: Methyl 3-(4-chlorosulfonyl)phenylpropionate

WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

Page 5/5 Printing date 11/24/2015 Reviewed on 12/11/2006

(Contd. of page 4)

USA