



1 Identification	
Product identifier Product name: 4-Chloro-3-(trifluoromethyl)benzoic acid	
Stock number: B23656	
CAS Number: 1737-36-6	
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	
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 hypiness hours, call (Annday Eriday, 8am-7nm EST), call (800) 343-0660, After normal hypiness hours, call Carechem 24 at (866) 928-0789	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	\dashv
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.	
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	
\wedge	
GHS07	
Signal word Warning	
Hazard statements H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P200 West protecting dust/fume/gas/mist/vapours/spray.	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED; Remove person to fresh air and keep comfortable for breathing.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D2B - Toxic material causing other toxic effects	
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\mathbf{U}	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
(Hazardou's Materials Identification System)	
File I Reactivity II 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: 1737-36-6 4-Chloro-3-(trifluoromethyl)benzoic acid	
4 First-aid measures	
Description of first aid measures 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	
Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
(Contd. on page 10 - U	ge 2) SA

Product name: 4-Chloro-3-(trifluoromethyl)benzoic acid

Information for doctor		(Contd. of page 1)		
Most important symptoms and effects,	, both acute and delayed No further relevant information available. ttention and special treatment needed No further relevant information available.			
5 Fire-fighting measures	· · · · ·			
Extinguishing media Suitable extinguishing agents Carbon of Special hazards arising from the subst If this product is involved in a fire, the follo Carbon monoxide and carbon dioxide Hydrogen fluoride (HF) Hydrogen chloride (HCI) Advice for firefighters Protective equipment: Wear self-contained respirator.	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. tance or mixture owing can be released:			
Wear fully protective impervious suit.				
6 Accidental release measures Personal precautions, protective equip Wear protective equipment. Keep unprote Ensure adequate ventilation Environmental precautions: Do not allo Methods and material for containment Prevention of secondary hazards: No s Reference to other sections See Section 7 for information on safe han See Section 8 for information on personal See Section 13 for disposal information.	ected persons away. The environment without proper governmental permits. And cleaning up: Ensure adequate ventilation. Special measures required. Indling			
7 Handling and storage				
Handling Precautions for safe handling				
Keep container tightly sealed. Store in cool. drv place in tightly closed co	ontainers.			
Ensure good ventilation at the workplace. Information about protection against e	explosions and fires: No information known.			
Conditions for safe storage, including Storage	any incompatibilities			
Requirements to be met by storerooms Information about storage in one comm Further information about storage cont Keep container tightly sealed. Store in cool, dry conditions in well sealed.				
Specific end use(s) No further relevant in	information available.			
8 Exposure controls/personal protect Additional information about design of Properly operating chemical fume hood d				
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 for ha	ures Indling chemicals should be followed			
Keep away from foodstuffs, beverages an Remove all soiled and contaminated cloth	nd feëd. hing immediately.			
Wash hands before breaks and at the end Avoid contact with the eyes and skin.				
Maintain an ergonomically appropriate wo Breathing equipment: Use suitable resp	orking environment. birator when high concentrations are present.			
Protection of hands: Impervious aloves				
Check protective gloves prior to each use The selection of suitable gloves not only o Eye protection: Safety glasses Body protection: Protective work clothin	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
9 Physical and chemical properties				
Information on basic physical and che General Information	mical properties			
Appearance:	Crystalling			
Color:	Crystalline White Not determined			
Odor threshold:	Not determined.			
pH-value: Change in condition	Not applicable.			
Melting point/Melting range: Boiling point/Boiling range:	163-165 °C (325-329 °F) Not determined Not determined			
	Not applicable Not determined.			
Ignition temperature:	Not determined Not determined			
		(Contd. on page 3)		

Product name: 4-Chloro-3-(trifluoromethyl)benzoic acid

		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
	Not determined	
	Not determined Not applicable.	
Density:	Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
	Not determined	
Partition coefficient (n-octanol/water): Viscosity:	Not determined.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
 O Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No of Conditions to avoid No further relevant I Incompatible materials: Oxidizing agent Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Hydrogen chloride (HCI) 1 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for cla Skin irritation or corrosion: Causes skin Eye irritation: No sensitizing effects know Germical construction: No sensitizing effects know Germical construction: No sensitizing effects know	information available. ts lassification: No data in irritation. ious eye irritation. wn.	
Reproductive toxicity: No effects known Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects Additional toxicological information: T	repeated exposure: No effects known. single exposure: May cause respiratory irritation.	
2 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No further Bioaccumulative potential No further re- Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow material to be released to the Do not allow undiluted product or large qu Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable.	er relevant information available. elevant information available. mation available. ne environment without proper governmental permits. ruantities to reach ground water, water course or sewage system.	
vPvB: Not applicable.	nt information available.	
Other adverse effects No further relevar		
3 Disposal considerations Waste treatment methods	r national regulations to ensure proper disposal. ade according to official regulations.	
3 Disposal considerations Waste treatment methods Recommendation Consult state, local or Uncleaned packagings: Recommendation: Disposal must be ma 4 Transport information Not a hazardous material for transportation	ade according to official regulations.	
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Transport/Additional information: Not dangerous according to the above specifications. DOT No Marine Pollutant (DOT): No		
Transport/Additional information: Not dangerous according to the above specifications. DOT Marine Pollutant (DOT): No Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Image: Comparison of the information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Image: Comparison of the information Signal word Warning Hazard pictograms Image: Comparison of the information Signal word Warning Hazard statements Hazard pictograms Figure inflation. Precautionary statements Figure inflation. Precautionary statements Figure inflation. P2304 P230 More Inflation. Figure inflation. P335-P351-P338 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304-P330 IF INILED: Remove person to fresh air and Keep comfortable for breathing. P405 Store locked up. P501 Store locked up. P501 Store locked up. P304-P330 IF INILED: Remove be sond or the used by or direcity under the supervision of a technical substance in no	oduct name: 4-Chloro-3-(trifluoromethyl)ben	zoic acid
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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 t market and use must be observed. Substance is not listed.	GHS Table elements The product is classified and Table Hazard pictograms Image: Constraint of the picture GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H326 Avoid breathing dust/fume/gas/mist P261 Avoid breathing dust/fume/gas/mist P280 Wear protective gloves/protective c P305+P351+P338 IF IN EYES: Rinse cautiously with v P304+P340 IF INHALED: Remove person to fre P405 Store locked up. P501 Dispose of contents/container in ac National regulations This product is not listed in the U.S. Environmental Protoc This product is not listed in the U.S. Environmental Protoc	eled in accordance with 29 CFR 1910 (OSHA HCS) t/vapours/spray. clothing/eye protection/face protection. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. esh air and keep comfortable for breathing. coordance with local/regional/national/international regulations. ptection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This
Anney XIV of the REACH Regulations (reguliting Authorisation for use) Substance is not listed	product must not be used for commercial purposes or I SARA Section 313 (specific toxic chemical listings, California Proposition 65 Prop 65 - Chemicals known to cause cancer Substa Prop 65 - Developmental toxicity Substance is not lis Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance is Information about limitation of use: For use only by Other regulations, limitations and prohibitive regul Substance of Very High Concern (SVHC) according The conditions of restrictions according to Article of market and use must be observed. Substance is not listed.	in formulátions for cómmercial purposes.) Substance is not listed. ance is not listed. sted. e is not listed. s not listed. technically qualified individuals. lations g to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
	conformance with this Material Safety Data Sheet, or in Department issuing SDS: Global Marketing Departme Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association (ATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical So HMIS: Hazardous Materials Identification System (USA) WHMIS: Warkplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	nciety)