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	Version 2
1 Identification	
Product identifier Product name: <b>4-Chloro-2,6-difluorobenzoic acid</b>	
Stock number: H26556	
CAS Number:	
196194-58-8 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 The American Alternation of the Alternative Statement of the	
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 business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-078	89.
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	
GHS07	
Signal word Warning Hazard statements	
H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation. <b>Precautionary statements</b>	
P261 Avoid breathing dust/fume/gas/mist/vapors/sprav	
P280 Wear protective gloves / eve 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	
$\widehat{\mathbf{T}}$	
Classification system HMIS ratings (scale 0-4)	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
Reactivity 1 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: 196194-58-8 4-Chloro-2,6-difluorobenzoic acid	
Concentration: ≤100%	
4 First-aid measures	
Description of first aid measures After inhalation	
After Innalation 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.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	Contd. on page 2)
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## Product name: 4-Chloro-2,6-difluorobenzoic acid

Product name: 4-Chloro-2,6-difluorok	benzoic acid	
After swallowing Seek medical treatmen Information for doctor Most important symptoms and effects, Causes skin irritation. Causes serious eye irritation. Indication of any immediate medical at		(Contd. of page 1)
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. Wear fully protective impervious suit.	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. tance or mixture owing can be released:	
6 Accidental release measures Personal precautions, protective equip Wear protective equipment. Keep unprotective 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 persona See Section 13 for disposal information. Protective Action Criteria for Chemical PAC-1: Substance is not listed. PAC-3: Substance is not listed.	w product to reach sewage system or any water course. <b>and cleaning up:</b> Ensure adequate ventilation. special measures required.	
Conditions for safe storage, including Storage	xplosions and fires: No information known. any incompatibilities s and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. ditions:	
8 Exposure controls/personal protect Additional information about design of Properly operating chemical fume hood d Control parameters Components with limit values that requ The product does not contain any relevan Additional information: No data Exposure controls Personal protective equipment General protective equipment General protective and hygienic measu The usual precautionary measures for ha Keep away from foodstuffs, beverages ar Remove all soiled and contaminated cloft 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 Protection of hands: Impervious gloves Check protective gloves prior to each use	ction f technical systems: lesigned for hazardous chemicals and having an average face velocity of at least 100 feet per minute. uire monitoring at the workplace: nt quantities of materials with critical values that have to be monitored at the workplace. ures ndling chemicals should be followed. nd feed. hing immediately. d of work. orking environment. wrator when high concentrations are present.	
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form:	<b>mical properties</b> Powder Not determined	
Odor threshold:	Not determined.	
-	Not applicable.	
Change in condition Melting point/Melting range:	183-186 °C (361-367 °F)	
		(Contd. on page 3)



## Product name: 4-Chloro-2,6-difluorobenzoic acid

	(Contd. of page 2			
Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper:	Not determined Not determined			
Vapor pressure: Density:	Not determined Not determined			
Relative density	Not determined.			
Vapor density Evaporation rate Solubility in / Miscibility with	Not applicable. Not applicable.			
Water: Partition coefficient (n-octanol/water)	Insoluble St Not determined.			
Viscosity: dynamic:	Not applicable.			
kinematic: Other information	Not applicable. No further relevant information available.			
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal 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 Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Hydrogen chloride (HCI)				
11 Toxicological information				
Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known.				
Specific target organ system toxicity - repeated exposure: No effects known.				
Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known.				
Subacute to chronic toxicity: No effect	sts known. 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 in Persistence and degradability No furth Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Avoid transfer into the Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relev	her relevant information available. relevant information available. rmation available. environment. t			
13 Disposal considerations				
Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n	or national regulations to ensure proper disposal. nade according to official regulations.			
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable			
Transport hazard class(es)				
DOT, ADR, ADN, IMDG, IATA Class	Not applicable			
Packing group DOT, ADR, IMDG, IATA				
DOT, ADR, IMDG, IATA Environmental hazards:	Not applicable Not applicable.			
	(Contd. on page 4 USA			

## Product name: 4-Chloro-2,6-difluorobenzoic acid

		(Contd. of page 3)	
Special precautions for user	Not applicable.		
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":	Not applicable		

## 15 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



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Signal word Warning Hazard statements Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H355 May cause respiratory irritation. Precautionary statements D361 Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves / eye protection / face protection. P305+P351+P388 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. 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. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Developmental toxicity, semale Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male 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. market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 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 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/Revision: Print date, revision date and version number are in the header of each page. 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 Transportation IATA: International Air Transport Association 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 PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern 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) XHC: International Jafety and Health Administration (USA) NTP: National Toxicology Program (USA) SKIn Irtit, 2: Skin cornspondency for Research on Cancer EPA: Environmental Protection Agency (USA) SKIn Irtit, 2: Skin cornspon/Irtitation – Category 2 Eye Irtit. 24: Serious eye damage/eye Irititation – Category 2A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Department issuing SDS: Global Marketing Department

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