



1 Identification
Product identifier
Product name: 2-Chloro-6-fluoro-3-methylbenzoic acid Stock number: P22281 / 18127
Stock number: B23281, L18137 CAS Number: 32890-89-4
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 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)
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. Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/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
$(\overline{T})$
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I 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:
32890-89-4 2 Chloro-6-fluoro-3-methylbenzoic 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.
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.
(Contd. on page 2) USA

## Product name: 2-Chloro-6-fluoro-3-methylbenzoic acid (Contd. of page 1) Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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 fluoride (HF) Hydrogen chloride (HCI) 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: 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 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. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 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. Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Odor: Not determined Odor threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined Not determined Sublimation temperature / start: Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined Not determined Auto igniting: Not determined

(Contd. on page 3)

## Product name: 2-Chloro-6-fluoro-3-methylbenzoic acid

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Mobility in soil No further relevant information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment. Results of PDT and vPVB assessment PVE Not applicable.         13 Disposal considerations         Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.         14 Transport information Not a hazardous material for transportation.         UN-Number DOT, IMDG, IATA       None         UN proper shipping name DOT, MDG, IATA       None         DOT, ADR, IMDG, IATA       None         Packing group DOT, MDG, IATA       None         DOT, ADR, IMDG, IATA       None         Packing group DOT, MOG, IATA       None         Packing group DOT, MOG, IATA       None         Packing group DOT, MOG, IATA       None         Fransport hazards:       Not applicable.         Fransport hazards:       Not applicable.         Fransport hazard class(es)       None         DOT, MOG, IATA       None         Transport hazard class(es)       None	Persistence and degradability No furth	er relevant information available.	
Additional ecological information:       General notes:       Do not allow material to be released to the environment without proper governmental permits.         Do not allow material to be released to the environment.       Results of PBT and VPB assessment         PBT: Not applicable.       Very Basessment         VPWB: Not applicable.       Very Basessment         13 Disposal considerations       Waste treatment methods         Recommendation: Disposal consult state, local or national regulations to ensure proper disposal.       Uncleaned packagings:         Recommendation: Disposal must be made according to official regulations.       Implementation         14 Transport information       None         UN-Number       None         DOT, IMDG, IATA       None         DOT, ADR, IMDG, IATA       None         DOT, ADR, IMDG, IATA       None         Packing group       None         DOT, ADR, IMDG, IATA       None         Packing group       None	Bioaccumulative potential No further re	elevant information available.	
General notes: -       Do not allow material to be released to the environment without proper governmental permits. Do not allow undifued product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PB1 and VPVB assessment PBT: Not applicable. VPVB: Not applicable.         13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.         14 Transport information Not a hazardous material for transportation.         UN-Number DOT, IMDG, IATA       None         Transport hazard class(es) DOT, ADR, IMDG, IATA       None         DOT, ADR, IMDG, IATA       None         Packing group DOT, IMDG, IATA       None         Packing roup To Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.         Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.	Additional ecological information:		
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Not a hazardous material for transportation.         UN-Number       None         DOT, IMDG, IATA       None         UN proper shipping name       None         DOT, IMDG, IATA       None         Transport hazard class(es)       None         DOT, ADR, IMDG, IATA       None         Packing group       None         Packing group       None         DOT, IMDG, IATA       None         Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.       Not angerous according to the above specifications.         Transport/Additional information:       Not dangerous according to the above specifications.		ade according to official regulations.	
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DOT, IMDG, IATA       None         UN proper shipping name DOT, IMDG, IATA       None         Transport hazard class(es)       None         DOT, ADR, IMDG, IATA       None         Packing group DOT, IMDG, IATA       None         Special precautions for user       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.       Not dangerous according to the above specifications.		<u>.</u>	
DOT, IMDG, IATA       None         Transport hazard class(es)       DOT, ADR, IMDG, IATA         DOT, ADR, IMDG, IATA       None         Packing group       None         DOT, IMDG, IATA       None         Packing group       None         DOT, IMDG, IATA       None         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable.       Not dangerous according to the above specifications.         Transport/Additional information:       Not dangerous according to the above specifications.	DOT, IMDG, IATA	None	
Transport hazard class(es)         DOT, ADR, IMDG, IATA         Class       None         Packing group       None         DOT, IMDG, IATA       None         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Not dangerous according to the above specifications.	UN proper shipping name	None	
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Class       None         Packing group DOT, IMDG, IATA       None         DOT, IMDG, IATA       None         Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Not dangerous according to the above specifications.         Transport/Additional information:       Not dangerous according to the above specifications.	•		
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Environmental hazards:       Not applicable.         Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Not dangerous according to the above specifications.         Transport/Additional information:       Not dangerous according to the above specifications.	Packing group		
Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.       Not applicable.         Transport/Additional information:       Not dangerous according to the above specifications.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.         Transport/Additional information:       Not dangerous according to the above specifications.			
Transport/Additional information: Not dangerous according to the above specifications.			
(Conta. on page 4) USA	i ransport/Additional Information:	ivot dangerous according to the above specifications.	(Contd on page 4)
			USA -

duct name: 2-Chloro-6-fluoro-3-met	
	(Contd. of page
DOT Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulati GHS label elements The product is classifie Hazard pictograms	ons/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P405         Store locked up.           P501         Dispose of contents/content	c <b>er</b> Substance is not listed. ce is not listed. Substance is not listed. Ibstance is not listed.
Other information Employers should use this information only a information to ensure proper use and protect	as a supplement to other information gathered by them, and should make independent judgement of suitability of this t the health and safety of employees. This information is furnished without warranty, and any use of the product not
Conformance with this Material Safety Data S Department issuing SDS: Global Marketing Date of preparation / last revision 11/24/20 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation (ATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information Syste LC50: Lethal doncentration, 50 percent LD50: Lethal concentration, 50 percent ACGIH: American Conference of Governmental Industrial H OSHA: Occupational Safety and Health Administration (US NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	0157 - Chemical Society)