



1 Identification
Product identifier Product name: <b>2-Chloro-4-fluorobenzaldehyde</b>
Stock number: A15345, L11160 CAS Number:
84194-36-5 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> 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 resinatory irritation
H335 May cause respiratory irritation. <b>Precautionary statements</b> P261 Avoid breathing 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
$(\mathbf{T})$
Classification system HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)
IFRE     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: 84194-36-5 2-Chloro-4-fluorobenzaldehyde
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. <b>After skin contact</b>
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.
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Product name: 2-Chloro-4-fluorober	nzaldehyde		
Information for doctor Most important symptoms and effect Indication of any immediate medical a	<b>s, both acute and delayed</b> No further relevant information available. <b>attention and special treatment needed</b> No further relevant information available.	(Contd. of page 1)	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents CO2, e Special hazards arising from the subs If this product is involved in a fire, the fo 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.	extinguishing powder or water spray. Fight larger fire with alcohol resistant foam. stance or mixture illowing can be released:		
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not all Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information.	otected persons away. Iow material to be released to the environment without proper governmental permits. I <b>t and cleaning up:</b> Ensure adequate ventilation. I special measures required. andling I protection equipment.		
7 Handling 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: Do not store together with strongly basic or oxidizing materials. Further information about storage conditions: Avoid contact with air/oxygen. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.			
Control parameters			
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 ch General Information Appearance: Form: Color: Odor:			
Odor threshold:	Not determined.		
pH-value: Change in condition	Not applicable.		
<i>Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:</i>	60-63 °C (140-145 °F) 118-120 °C (244-248 °F) (50mm Hg) Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not applicable Not determined. Not determined Not determined		
		(Contd. on page 3)	

## Product name: 2-Chloro-4-fluorobenzaldehyde

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		eviewed on 11/21/2005
Product name: 2-Chloro-4-fluoroben	nzaldehyde	
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Auto igniting: Danger of explosion:	Not determined. Product does not present an explosion hazard.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water):		
Viscosity: dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	I
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recomn	mended storage conditions.	
Thermal decomposition / conditions tr	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.	
Conditions to avoid No further relevant	o dangerous reactions known	
Incompatible materials: Oxidizing agents		
Bases		
Air 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 c	slassification: No data	
Skin irritation or corrosion: Causes ski	kin irritation.	
Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno	own.	
Germ cell mutagenicity: No effects kno	own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
<b>Reproductive toxicity:</b> No effects known	vn.	
Specific target organ system toxicity - Specific target organ system toxicity -	<ul> <li>repeated exposure: No effects known.</li> <li>single exposure: May cause respiratory irritation.</li> </ul>	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	- single exposure: May cause respiratory irritation.	
Additional toxicological information:	ts 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 info Persistence and degradability No furth	her relevant information available.	
Bioaccumulative potential No further re	relevant information available.	
Mobility in soil No further relevant inform Additional ecological information:	mation available.	
General notes: Do not allow material to be released to the	he environment without proper governmental permits.	
Do not allow undiluted product or large q	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessment	t	
<b>PBT:</b> Not applicable. <b>vPvB:</b> Not applicable.		
Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods		
Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be ma	ade according to official regulations.	
14 Transport information Not a hazardous material for transportati	ion	
UN-Number		
DOT, IMDG, IATA UN proper shipping name	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA		
Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
		(Contd. on page 4

