

1 Identification	
Product identifier Product name: 2-Chloro-6-fluoroanisole	
Stock number: B24294	
CAS Number: 53145-38-3 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
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Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-32 <u>2</u> -4757	
Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com	
www.ana.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	8-0789.
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. Eve Irrit. 2A H319 Causes serious eve irritation.	
STOT SE 3 H335 May cause respiratory irritation.	
H227 Combustible liquid. 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 Hazard statements H227 Combustible liquid. H315 Causes skin irritation. H315 Causes serious eye irritation. H315 Causes serious eye irritation. H325 May cause respiratory irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. 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 rinside P405 Store locked up. P501 P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification B3 - Combustible liquid D2B - Toxic material causing other toxic effects	ng.
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I FRE 2 Flammability = 2 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: 53145-38-3 2-Chloro-6-fluoroanisole	
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.	(Contd. on page 2)
	USA

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(Contd. of page 1) 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. 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 freatment 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 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: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. 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. Prevent formation of aerosols. Information about protection against explosions and fires: Keep ignition sources away. 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: l iauid Odor: Not determined Odor threshold: Not determined pH-value: Not determined. Change in condition Melting point/Melting range: Not determined Boiling point/Boiling range: Not determined

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		(Contd. of page 2)		
Sublimation temperature / start:	Not determined			
Flash point: Flammability (solid, gaseous)	69 °C (156 °F) Not determined.			
Ignition temperature:	Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion:	Not determined.			
Explosion limits: Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not determined			
Density:	Not determined			
Relative density Vapor density	Not determined. Not determined.			
Evaporation rate	Not determined.			
Solubility in / Miscibility with Water:	Not determined			
Partition coefficient (n-octanol/water): Viscosity:	Not determined.			
dynamic:	Not determined.			
kinematic: Other information	Not determined. No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known.				
Chemical stability Stable under recomm Thermal decomposition / conditions to	b be avoided: Decomposition will not occur if used and store	ed according to specifications.		
Possibility of hazardous reactions No Conditions to avoid No further relevant	dangerous reactions known	Ç .		
Incompatible materials: Oxidizing agen	ts			
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				
Skin irritation or corrosion: Causes sk Eye irritation or corrosion: Causes ser				
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.				
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from th	he 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	sigle exposure: May cause respiratory irritation.			
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	sknown			
Additional toxicological information:	o the best of our knowledge the acute and chronic toxicity of	f this substance is not fully known.		
12 Ecological information				
Toxicity				
Aquatic toxicity: No further relevant info	ermation available.			
Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant infor	er relevant information available.			
Mobility in soil No further relevant inform Additional ecological information:	nation available.			
General notes:				
Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.				
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment				
PBT: Not applicable.				
vPvB: Not applicable. Other adverse effects No further releva	nt information available			
13 Disposal considerations				
Waste treatment methods Recommendation Consult state. local o	r national regulations to ensure proper disposal.			
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				
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14 Transport information Not a hazardous material for transportati	מר			
UN-Number				
DOT, IMDG, IATA UN proper shipping name	None			
UN proper shipping name DOT, IMDG, IATA	None			
Transport hazard class(es)				
DOT, IMDG, IATA Class	None			
Class Label	None 3			
Laber	<u>_</u>	(Contd. on page 4)		

(Contd. on page 4)

Product name: 2-Chloro-6-fluoroanisole				
Posting avera	(Contd. of page 3)			
Packing group 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.				
Transport/Additional information:	Not dangerous according to the above specifications.			
DOT Marina Ballutant (DOT):				
Marine Pollutant (DOT):	No			
 P405 Store locked up. P501 Dispose of contents/container in accorda National regulations This product is not listed in the U.S. Environmental Protectit to research and development only. This product must be use product must not be used for commercial purposes or in forn SARA Section 313 (specific toxic chemical listings) Sub California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance in Prop 65 - Developmental toxicity, female Substance is not Information about limitation of use: For use only by techn Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the The conditions of restrictions according to Article 67 ar market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assessr 16 Other information Employers should use this information only as a supplement information to ensure proper use and protect the health and confirmation of Lother and Substance information only as a supplement. 	in accordance with 29 CFR 1910 (OSHA HCS) es/hot surfaces. No smoking. ours/spray. ng/eye protection/face protection. Tor several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ance with local/regional/national/international regulations. ion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This mulations for commercial purposes. Istance is not listed. is not listed. istance is not listed. istance is not listed. he REACH Regulations (EC) No. 1907/2006. Substance is not listed. nd Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ristation for use) Substance is not listed. ment has not been carried out.			
Conformance with this Miaterial Safety Data Sheet, of in Con- Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: 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) LCS0: Lethal concentration, 50 percent VPVB: 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)				
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)	USA			