

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier Product name: 5-Fluoro-2-methoxybenzyl bromide
Stock number: H25957
CAS Number: 700381-18-6
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
Email. tech Waha.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)
GHS05 Corrosion
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified Lachrymator
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS05
Signal word Danger
Hazard statements H314 Causes severe skin burns and eye damage.
Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/
WHMIS classification D2B - Toxic material causing other toxic effects
E - Corrosive material
Classification system HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)
HEALTH 3 FIRE 1 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: 700381-18-6 5-Fluoro-2-methoxybenzyl bromide
4 First-aid measures
Description of first aid measures General information Immediately remove any clothing soiled by the product.
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. Information for doctor
Most important symptoms and effects, both acute and delayed Causes severe skin burns.
Causes severe skill bullis. Causes serious eye damage. (Contd. on page 2)

Product name: 5-Fluoro-2-methoxybenzyl bromide

<u>·</u>		(Contd. of page 1)
Indication of any immediate medical attention	and special treatment needed No further relevant information available.	(Conta: or page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, Special hazards arising from the substance on If this product is involved in a fire, the following ca Carbon monoxide and carbon dioxide Hydrogen fluoride (HF) Hydrogen bromide (HBr) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. r mixture an be released:	
6 Accidental release measures Personal precautions, protective equipment a Wear protective equipment. Keep unprotected per Ensure adequate ventilation Environmental precautions: Do not allow mater Methods and material for containment and cle Use neutralizing agent. Dispose of contaminated material as waste accou- Ensure adequate ventilation. Prevention of secondary hazards: No special r Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protects See Section 13 for disposal information.	ersons away. rial to be released to the environment without proper governmental permits. eaning up: rding to section 13. measures required.	
7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed container Ensure good ventilation at the workplace. Information about protection against explosion Conditions for safe storage, including any inc Storage Requirements to be met by storerooms and re Information about storage in one common sto Store away from oxidizing agents. Store away from storag bases. Further information about storage conditions. Keep container tightly sealed. Store in cool, dry conditions in well sealed contai Specific end use(s) No further relevant information	compatibilities compatibilities eceptacles: No special requirements. orage facility: :	
Control parameters Components with limit values that require mo Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling of Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing imr. Wash hands before breaks and at the end of wor Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working en Breathing equipment: Use suitable respirator w Protection of hands: Impervious gloves Check protective gloves prior to each use for the	d for hazardous chemicals and having an average face velocity of at least 100 feet per minute. pritoring at the workplace: Not required. chemicals should be followed. mediately. rk. invironment. when high concentrations are present. ir proper condition. s on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
9 Physical and chemical properties Information on basic physical and chemical p General Information Appearance: Form: Crystall Color: White Odor: Pungen	ine powder	
nH-yalue: Net apr		

 pH-value:
 Not applicable.

 Change in condition Melting point/Melting range:
 58-62 °C (136-144 °F) 58-62 °C (136-144 °F)

 Boiling point/Boiling range:
 Not determined

(Contd. on page 3) USA

5_Eli -2-methoxybenzyl bromide

Page 3/4 Printing date 11/24/2015 Reviewed on 05/13/2010

Product name: 5-Fluoro-2-methoxyl	benzyl bromide	
		Contd. of page 2)
Sublimation temperature / start: Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not applicable Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic: Other information	Product does not present an explosion hazard. Not determined Not applicable. Not applicable. Not determined. Not applicable. Insoluble Not applicable. Not applicable.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions s Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agents Bases Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Hydrogen bromide	mended storage conditions. to be avoided : Decomposition will not occur if used and stored according to specifications. o dangerous reactions known t information available.	
LD/LC50 values that are relevant for (Skin irritation or corrosion: Causes so Eye irritation or corrosion: This product is a lachrymator. Causes serious eye damage. Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects know Carcinogenicity: No classification data Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	evere skin burns. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. - repeated exposure: No effects known. - single exposure: No effects 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 infor Additional ecological information: General notes: Do not allow material to be released to a Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPVB: Not applicable. Other adverse effects No further relevant	her relevant information available. relevant information available. rmation available. the environment without proper governmental permits. 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, IMDG, IATA	UN3261	
UN proper shipping name DOT IMDG, IATA	Corrosive solid, acidic, organic, n.o.s. (5-Fluoro-2-methoxybenzyl bro CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (5-Fluoro-2-metho bromide)	
	((Contd. on page 4)

(Contd. on page 4)

	(Contd. of pa
ransport hazard class(es)	
от	
lass	8 Corrosive substances.
abel lass	8 8 (C4) Corrosive substances
abel	8
IDG, IATA	
lass	8 Corrosive substances.
abel	8
acking group OT, IMDG, IATA	11
nvironmental hazards:	Not applicable.
pecial precautions for user	Warning: Corrosive substances
egregation groups	Acids
ransport in bulk according to Annex II of MARPOL73/78 a	nd the IBC Code Not applicable.
ransport/Additional information:	
OT arine Pollutant (DOT):	No
N "Model Regulation":	UN3261, Corrosive solid, acidic, organic, n.o.s. (5-Fluoro-2-methoxybenzyl bromide), 8, II

GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms

GHS05

Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/... 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. SARA Section 313 (specific toxic chemical listings) Substance is not listed. 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 the market and use must be observed. National regulations market and use must be observed.

Substance is not liste 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.

16 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 Material 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 / last revision 11/24/2015 / -

Date of preparation / last revision 11/24/2015/ -Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IAA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: International Civil Aviation Organization ICAO: International Anitime Code for Dangerous Goods by Road) IDE: ricetnical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation ITA: 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) LS50: Lethal concentration, 50 percent L950: Lethal concentration, 50 percent L950: Cupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)