

Safety Data Sheet per OSHA HazCom 2012

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Melting point/Melting range:

Not determined

Product name: 4-Chloro-2,6-difluorobenzyl bromide (Contd. of page 1) 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 bromide (HBr) Hydrogen chloride (HCl) 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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to section 13. 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. Store away from strong bases. 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 General protective and nyglenic 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 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. Penetration time of glove material (in minutes) Not determined Eye protection: Tightly sealed goggles Full face protection Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Liquid Color: Colorless Odor Pungent Odor threshold: Not determined. pH-value: Not determined Change in condition

Product name: 4-Chloro-2,6-difluorobenzyl bromide

Product name: 4-Chioro-2,6-difilior	benzyi bromiae					
		(Contd.	of page 2)			
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined					
Flash point:	Not determined					
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined					
Decomposition temperature:	Not determined					
Auto igniting:	Not determined.	an barand				
Danger of explosion: Explosion limits:	Product does not present an explosi	on nazard.				
Lower:	Not determined					
Upper: Vapor pressure:	Not determined Not determined					
Density: Relative density	Not determined Not determined.					
Vapor density	Not determined.					
Evaporation rate Solubility in / Miscibility with	Not determined.					
Water: Partition coefficient (n-octanol/water	Not miscible or difficult to mix					
Viscosity:						
dynamic: kinematic:	Not determined. Not determined.					
Other information	No further relevant information availa	able.				
10 Stability and reactivity						
Reactivity No information known. Chemical stability Stable under recom	mended storage conditions.					
Thermal decomposition / conditions	to be avoided: Decomposition will not	t occur if used and stored according to specifications.				
Possibility of hazardous reactions No Conditions to avoid No further relevar	it information available.					
Incompatible materials: Oxidizing agents						
Bases	Bases					
Hazardous decomposition products: Carbon monoxide and carbon dioxide						
Hydrogen fluoride Hydrogen bromide						
Hydrogen chloride (HCI)						
11 Toxicological information						
Information on toxicological effects						
Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.						
LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns.						
Eye irritation or corrosion:						
This product is a lachrymator. Causes serious eye damage. Sensitization: No sensitizing effects known.						
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 orgań system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. A printion bargard: No offects known						
Subacute to chronic toxicity: No effe	Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.					
Additional toxicological information: 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 information available. Persistence and degradability No further relevant information available.						
Bioaccumulative potential No further relevant information available.						
Mobility in soil No further relevant information available. Additional ecological information:						
General notes: Do not allow material to be released to the environment without proper governmental permits.						
Avoid transfer into the environment.						
Results of PBT and vPvB assessment PBT: Not applicable.						
vPvB: Not applicable. Other adverse effects No further relev	ant information available					
-	13 Disposal considerations					
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.						
Uncleaned packagings:						
,						
14 Transport information						
UN-Number DOT, IMDG, IATA		UN3265				
UN proper shipping name						
DOT IMDG, IATA		Corrosive liquid, acidic, organic, n.o.s. (4-Chloro-2,6-difluorobenzyl bromid CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (4-Chloro-2,6-difluorobe	e) enzvl			
		bromide)	~··· ~y i			
		(Contd.	on page 4)			

(Contd. on page 4)

Printing date 11/24/2015 Reviewed on 01/07/2010 Product name: 4-Chloro-2,6-difluorobenzyl bromide (Contd. of page 3) Transport hazard class(es) DOT Class 8 Corrosive substances. Label Class 8 (C3) Corrosive substances IMDG, IATA Class 8 Corrosive substances. Label Packing group DOT, IMDG, IATA 11 Environmental hazards: Not applicable. Special precautions for user Segregation groups Warning: Corrosive substances Acids 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": UN3265, Corrosive liquid, acidic, organic, n.o.s. (4-Chloro-2,6-difluorobenzyl bromide), 8, II 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 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/... Precautionary statements 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. 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 Propostion 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female 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.

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)