





## Product name: 2-Chloro-5-fluorobenzylamine

Page 2/4 Printing date 11/24/2015 Reviewed on 12/19/2007

(Contd. of page 1) Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eve damage 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 chloride (HCl) Hydrogen fluoride (HCl) Nitrogen oxides (NOx) 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. 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. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Tightly sealed goggles Full face protection **Protection:** Impervious gloves Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Yellow Color: Odor: Not determined Odor threshold: Not determined pH-value: Not determined.

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Page 3/4 Printing date 11/24/2015 Reviewed on 12/19/2007

		Contd. of page 2
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper: Vapor pressure:	Not determined Not determined Not determined	
Density: Relative density Vapor density	Not determined Not determined. Not determined.	
Evaporation rate Solubility in / Miscibility with	Not determined.	
Water: Partition coefficient (n-octanol/water) Viscosity:	Not determined ): Not determined.	
dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Hydrogen fluoride Nitrogen oxides	nt information available. ents	
LD/LC50 values that are relevant for of Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes se 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 effect	evere skin burns. erious eye damage. nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. - <b>- repeated exposure:</b> No effects known. - <b>- single exposure:</b> No effects known.	
12 Ecological information Toxicity		
Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	ther relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>nt</b>	
13 Disposal considerations Waste treatment methods	or national regulations to ensure proper disposal.	
	nade according to official regulations.	
Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m 14 Transport information	nade according to official regulations.	
Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	nade according to official regulations. UN2735	

(Contd. on page 4)

Product name: 2-Chloro-5-fluorobenzylamine		
	(Contd. of page 3)	
Transport hazard class(es) DOT		
Class Label	8 Corrosive substances.	
Class Label	8 (C7) Corrosive substances 8	
IMDG, IATA		
Class Label	8 Corrosive substances. 8	
Packing group DOT, IMDG, IATA	<i>III</i>	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Corrosive substances Alkalis	
Segregation groups         Alkalis           Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.         Image: Code Not applicable.		
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN2735, Amines, liquid, corrosive, n.o.s. (2-Chloro-5-fluorobenzylamine), 8, III	
15 Regulatory information		
Hazard pictograms GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dustfurne/gas/nist/vapours/spray. P303+P361+P351 if NE TVS.: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P30+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 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. Prop 65 - Developmental toxicity, substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity and the publish publisher of the Regulations (EC) No. 1907/2006. Substance is not listed. Substance of Vew, High Concerned SUHD(IV) and REACH Regulations (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		
<ul> <li>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.     </li> <li>Department issuing SDS: Global Marketing Department         Date of preparation / last revision 11/24/2015 / -</li></ul>		