

Safety Data Sheet per OSHA HazCom 2012



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Product name: 1-Chloro-3,5-difluorobenzene

(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 treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Exunguishing meala Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. 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 fireinters 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 Keep away from ignition sources 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 Methods and material for containment and creaning 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 13 for disposal information 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: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. 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 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. Do not inhale gases / fumes / aerosols. 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 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: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Color: Liquid Colorless Odor: Aromatic (Contd. on page 3)

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Odor threshold:	Not determined.	(Contd. of page 2)
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 117-119 °C (243-246 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	29 °C (84 °F) Not determined. Not determined Not determined Not determined.	
Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Explosion limits: Not determined Lower: Not determined Upper: Not determined Density at 20 °C (68 °F): 1.329 g/cm³ (11.091 lbs/gal) Relative density Not determined. Vapor density Not determined. Vapor density Not determined. Vapor of ensity Not determined. Vapor adensity Not determined. Vapor of ensity Not determined. Vapor of ensity: Not determined. Vapor Not det		
Incompatible materials: Oxidizing agents 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 classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes skin veritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. 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 relevant information available.		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
14 Transport information		
UN-Number DOT, IMDG, IATA	UN1993	
UN proper shipping name DOT IMDG, IATA	Flammable liquids, n.o.s. (1-Chloro-3,5-difluorobenzene) FLAMMABLE LIQUID, N.O.S. (1-Chloro-3,5-difluorobenzene)	
(Contd. on page 4) USA		

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per OSHA HazCom 2012 Reviewed on 01/19/2010		
Product name: 1-Chloro-3,5-difluorobenzene		
	(Contd. of page 3)	
Transport hazard class(es) DOT		
Class	3 Flammable liquids.	
Label Class Label	3 (F1) Flammable liquids	
Label IMDG, IATA	3	
e		
Class Label	3 Flammable liquids. 3	
Packing group DOT, IMDG, IATA	<i>III</i>	
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number:	Warning: Flammable liquids F-E,S-E	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod		
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN1993, Flammable liquids, n.o.s. (1-Chloro-3,5-difluorobenzene), 3, III	
15 Regulatory information		
product must not be used for commercial purposes or in formulations for comm 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 ind. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regula The conditions of restrictions according to Article 67 and Annex XVII of the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) St Chemical safety assessment: A Chemical Safety Assessment has not been 16 Other information	Aubstances Control Act Chemical Substance Inventory. Use of this product is restricted nder the supervision of a technically qualified individual as defined by TSCA. This mercial purposes. I. Iividuals. Autons (EC) No. 1907/2006. Substance is not listed. The Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ubstance is not listed. carried out.	
Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employes conformance with this Material Safety Data Sheet, or in combination with any of Department issuing SDS : Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: RID: Reglement international concernative international Air Transport Association" (IATA) ICAO: Thermational Civil Aviation Organization ICAO: Thermational Civil Aviation Organization ICAO: Thermational Civil Aviation Organization ICAO: Thermational Air Transport Association" (ICAO) ADR: Accord europeen sur le transport des marchandises dangereuses par chemin de fer IATA: International Civil Aviation Organization ICAO: Thermational Amartime Code for Dangerous Goods DOT: US Department of Transport Association ATA: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: International Air Transport Association CAS: International Air Transport Association CAS: International Air Transport Association CAS: Heatradus Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCGO: Lethal concentration, 50 percent UPS0: Lethal concentration, 50 percent UPS0: Lethal consent Carlons Commended Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA)	ion gathered by them, and should make independent judgement of suitability of this res. This information is furnished without warranty, and any use of the product not in other product or process, is the responsibility of the user. r (Regulations Concerning the International Transport of Dangerous Goods by Rail) nt concerning the International Carriage of Dangerous Goods by Road) USA	