





Information for doctor

## Product name: 5-(Trifluoromethyl)pyridine-2-carboxylic acid

(Contd. of page 1)

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 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) 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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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. Avoid contact with the aves and exin. 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:** Safety glasses **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: Pale brown Not determined Odor: Odor threshold: Not determined Not applicable. pH-value: Change in condition Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: 133-137 °C (271-279 °F) Not determined Not determined Not determined. Not determined

Not determined

## Product name: 5-(Trifluoromethyl)pyridine-2-carboxylic acid

Page 3/4 Printing date 11/24/2015 Reviewed on 02/13/2014

Product name: 5-(1riffuoromethyl)p		
Auto igniting:	(Contd. of pag Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water Viscosity:	r): Not determined.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides		
Reproductive toxicity: No effects kno Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe	skin irritation. erious eye irritation. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. <b>y - repeated exposure:</b> No effects known. <b>y - single exposure:</b> May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	ther relevant information available. relevant information available. ormation available. • quantities to reach ground water, water course or sewage system. • <b>nt</b>	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be l	or national regulations to ensure proper disposal. made according to official regulations.	
14 Transport information		
UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA		
DOT, IMDG, IATA Environmental hazards:	Not applicable Not applicable.	
Special precautions for user	Not applicable.	
	x II of MARPOL73/78 and the IBC Code Not applicable.	

(Contd. on page 4) USA

	Reviewed 011 02/13/2014
Product name: 5-(Trifluoromethyl)pyridine-	-2-carboxylic acid
	(Contd. of page 3)
Transport/Additional information: DOT	
DO1 Marine Pollutant (DOT):	No
UN "Model Regulation":	
15 Regulatory information Safety, health and environmental regulations/li GHS label elements The product is classified and Hazard pictograms	<b>legislation specific for the substance or mixture</b> Ind labeled in accordance with 29 CFR 1910 (OSHA HCS)
P405 Store locked up. P501 Dispose of contents/container <b>National regulations</b> This product is not listed in the U.S. Environmenta to research and development only. This product n	ctive clothing/eyé protection/face protection. with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. to fresh air and keep comfortable for breathing. in accordance with local/regional/national/international regulations. tal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This es or in formulations for commercial purposes. stic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). <b>tings</b> ) Substance is not listed. Substance is not listed.
Information about limitation of use: For use onl Other regulations, limitations and prohibitive r Substance of Very High Concern (SVHC) account The conditions of restrictions according to Art market and use must be observed. Substance is not listed.	nly by technically qualified individuals. regulations rrding to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. rticle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ng Authorisation for use) Substance is not listed.
information to ensure proper use and protect the h	supplement to other information gathered by them, and should make independent judgement of suitability of this health and safety of employees. This information is furnished without warranty, and any use of the product not in t, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Dep Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangen DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemi HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Car UCSC): Lethel concentration, 50 percent	p <b>artment</b> / - nical Society) anada)
LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienik OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer	STS (USA)

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)