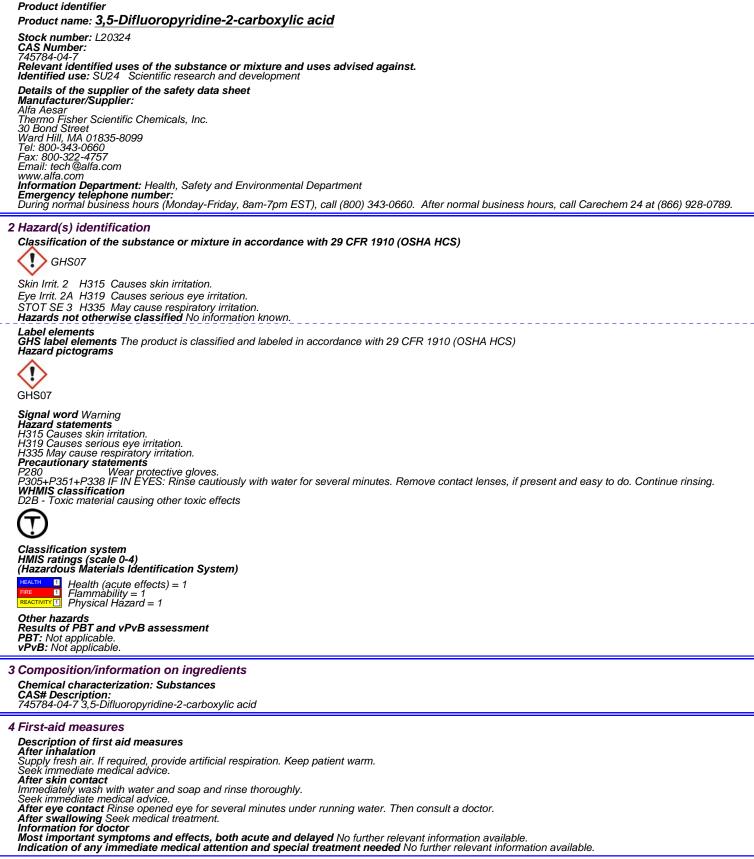




1 Identification



# Product name: 3,5-Difluoropyridine-2-carboxylic acid

(Contd. of page 1)

## 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 Nitrogen oxides (NOX) Possible Hydrogen overlage overlage of HCN)

Allosofibly Hydrogen cyanide (HCN) Hydrogen fluoride (HF) 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: 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

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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eves and skin 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 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

	5
Information on basic physical and ch General Information Appearance:	nemical properties
Form: Color:	Powder Off-white
Odor:	On-write Odorless
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	ca 205 °C (ca 401 °F) (dec) Not determined Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.
Danger of explosion:	Product does not present an explosion hazard.

(Contd. on page 3)

# Product name: 3,5-Difluoropyridine-2-carboxylic acid

Product name: 3,5-Difluoropyridine-2-carboxylic acid		
	(Cor	ntd. of page 2)
Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:	Not determined Not applicable. Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant	nended storage conditions. <b>5 be avoided:</b> Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available	
Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen fluoride Possibly Hydrogen cyanide (HCN)	ts	
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 serious eye irritation. 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. Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. 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	r national regulations to ensure proper disposal. ade according to official regulations.	
<b>14 Transport information</b> Not a hazardous material for transportation	on.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user   Not applicable.     Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.   Not applicable.		
Transport/Additional information:	Not dangerous according to the above specifications.	
		td. on page 4)

(Contd. on page 4)

Product name: 3,5-Difluoropyridine-2-carboxylic acid			
	(Contd. of page 3)		
DOT Marine Pollutant (DOT): No			
<b>15 Regulatory information</b> 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			
GHS07   Signal word Warning Hazard statements   H315 Causes serious eye irritation.   H315 Causes serious eye irritation.   H335 May cause respiratory irritation.   Precautionary statements   P280 Wear protective gloves.   P305+P351+P381 F/IN EYES: Rinse cautionsly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin National regulations   This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this p to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by 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 - Chemicals known to cause cancer Substance is not listed.   Prop 65 - Developmental toxicity, female Substance is not listed.   Prop 65 - Developmental toxicity, the Substance is not listed.   Information about limitation of use: For use only by technically qualified individuals.   Other regulations 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 market and use must be observed.	roduct is restricted y TSCA. This		
16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of supplement of ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	uitability of this ne product not in		
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal advertional Safety and Heatin Administration (USA) WTP: National Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	USA —		