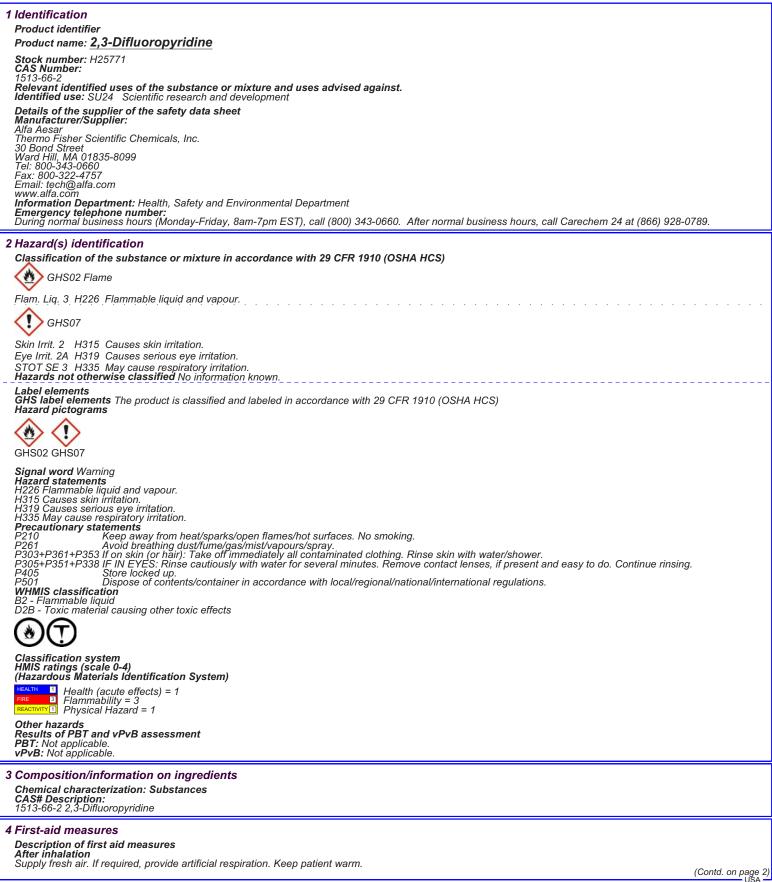


#### Safety Data Sheet per OSHA HazCom 2012



	Reviewed on 07/15/2009
Product name: 2,3-Difluoropyridine	
Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. 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.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media 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 Nitrogen oxides (NOX) Hydrogen cyanide (HEN) 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 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. 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 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: 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. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in formation 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 min 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 procautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soile 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 Exportection: Safety glasses Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance: Form: Liquid	

## Product name: 2 3-Difluoronvridine

Product name: 2,3-Difluoropyridine		
	(Contd. of	f page
Color:	Colorless	
Odor: Odor threshold:	Characteristic Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range: Boiling point/Boiling range:	Not determined 125-126 °C (257-259 °F)	
Sublimation temperature / start:	Not determined	
Flash point:	31 °C (88 °F)	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not determined	
Density:	Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not determined. Not determined.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water	Not miscible or difficult to mix ): Not determined	
Viscosity:	,	
dynamic: kinematic:	Not determined. Not determined.	
Other information	No further relevant information available.	
Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen fluoride Hydrogen cyanide		
11 Toxicological information		
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known	skin irritation. erious eye irritation. nown. aown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No furt Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to Avoid transfer into the environment. Results of PBT and vPVB assessment PBT: Not applicable. vPvB: Not applicable.	ther relevant information available. relevant information available. ormation available. the environment without proper governmental permits.	

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

Flammable liquids, n.o.s. (2,3-Difluoropyridine)

(Contd. on page 4)

# Safety Data Sheet per OSHA HazCom 2012

	(Contd. o
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (2,3-Difluoropyridine)
Transport hazard class(es) DOT	
<b>*</b>	
Class	3 Flammable liquids.
Label Class	3 (F1) Flammable liquids
Label	3
IMDG, IATA	
<b>*</b>	
Class	3 Flammable liquids.
Label	3
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to Annex II of MARPOL73/ Transport/Additional information:	<b>18 and the IBC Code</b> Not applicable.
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1993, Flammable liquids, n.o.s. (2,3-Difluoropyridine), 3, III
P405 Store locked up	nes/hot surfaces. No smoking. pours/spray. y all contaminated clothing. Rinse skin with water/shower. er for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. dance with local/regional/national/international regulations. tion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is re
This product is not listed in the U.S. Environmental Protect to research and development only. This product must be u product must not be used for commercial purposes or in for SARA Section 313 (specific toxic chemical listings) Su California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity Substance is not listed Prop 65 - Developmental toxicity, female Substance is no Information about limitation of use: For use only by tecl Other regulations. limitations and prohibitive regulation	used by or directly under the supervision of a technically qualified individúal as defined by TSCA. Th ormulations for commercial purposes. ubstance is not listed. f. not listed. ti listed. hnically qualified individuals. <b>DIS</b>
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# Product name: 2,3-Difluoropyridine

ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) (Contd. of page 4)

USA -