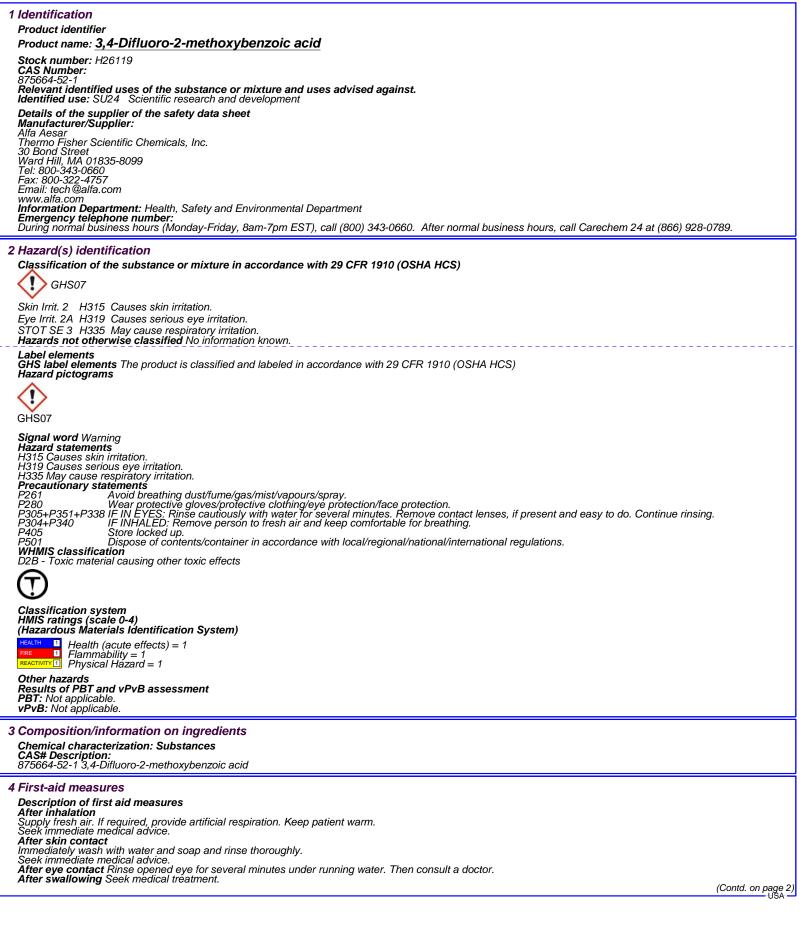


Safety Data Sheet per OSHA HazCom 2012



## Product name: 3,4-Difluoro-2-methoxybenzoic acid (Contd. of page 1) 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 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) 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 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:** Safety glasses **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Color: Crystalline White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 137-139 °C (279-282 °F) Not determined Not determined Not applicable Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

## Product name: 3,4-Difluoro-2-methoxybenzoic acid

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Product name: 3,4-Difluoro-2-metho	xybenzoic acid	
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined. Not determined. Not applicable. Not applicable.	
Water: Partition coefficient (n-octanol/water) Viscosity:		
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known	t information available.	
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 effec	kin irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. - <b>repeated exposure:</b> No effects known. - <b>single exposure:</b> May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant into Persistence and degradability No further Bioaccumulative potential No further of Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to to Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	her relevant information available. relevant information available. rmation available. rhe environment without proper governmental permits. <b>t</b>	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.	
<b>14 Transport information</b> Not a hazardous material for transportat	ion.	
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.	
	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contd on page 4)
		(Contd. on page 4) USA

DOT Marine Pollutant (DOT): No	oduct name: 3,4-Difluoro-2-methoxyber	
Main No   FRegulatory information 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		(Contd. of page
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 GHSoT Signal word Warning Hazard statements H315 Causes skin irritation. H316 Causes skin irritation. H316 Causes skin irritation. H336 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P334 IF IN EYES: Rinse cautiously with water for several minutes. Control Lenses, if present and easy to do. Continue rinsing. P305+P334 IF IN EYES: Rinse cautiously with water for several minutes. Control Lenses, if present and easy to do. Continue rinsing. P305+P334 IF IN HALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international 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 restric 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 Sectific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, Genale Substance is not listed. Prop 65 - Developmental toxicity, female Substance		No
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Signal word Warning Hazard statements   H315 Causes skin irritation.   H316 Causes skin irritation.   Precautionary statements   P261 Avoid breathing dust/fume/gas/mist/vapours/spray.   P280 Wear protective gloves/protective clothing/eye protection/face protection.   P304+P340 IF IN HALED: Remove person to fresh air and keep comtortable for breathing.   P405 Store locked up.   P501 Dispose of contents/container in accordance with local/regional/national/international regulations.   National 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 restric to research and development only. This product must 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, male Substance is not listed.   Prop 65 - Developmental toxicity, male	GHS label elements The product is classified a Hazard pictograms	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Outpetance is used listed	Signal word Warning Hazard statements   H315 Causes skin irritation.   H315 Causes serious eye irritation.   H319 Causes serious eye irritation.   H335 May cause respiratory irritation.   Precautionary statements   P261 Avoid breathing dust/fume/ga   P305+P351+P338 IF IN EYES: Rinse cautiously   P304+P340 IF INHALED: Remove person   P405 Store locked up.   P501 Dispose of contents/contained   National regulations This product is not listed in the U.S. Environmer   This product is not listed in the U.S. Environmer To product must not be used for commercial purpos   SARA Section 313 (specific toxic chemical list California Proposition 65   Prop 65 - Developmental toxicity Substance is Prop 65 - Developmental toxicity, female Subb   Prop 65 - Developmental toxicity, male Subst Prop 65 - Developmental toxicity, female Subb   Prop 65 - Developmental toxicity, female Subb Substance of Very High Concern (SVHC) acc   Other regulations, limitations and prohibitive Substance of very High Concern (SVHC) acc	ective clothing/eyé protection/face protection. y with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. in to fresh air and keep comfortable for breathing. er in accordance with local/regional/national/international regulations. Intal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrictu t must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ises or in formulations for commercial purposes. istings) Substance is not listed. Substance is not listed. bstance is not listed.
	5 Other information Employers should use this information only as a information to ensure proper use and protect the conformance with this Material Safety Data She	• supplement to other information gathered by them, and should make independent judgement of suitability of this e health and safety of employees. This information is furnished without warranty, and any use of the product not in set, or in combination with any other product or process, is the responsibility of the user.
5 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 ir conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	Department issuing SDS: Global Marketing Department issuing SDS: Global Marketing Department of preparation / last revision 11/24/2015 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International An irtnasport Association CAS: Chemical Abstracts Service (division of the American Che HMIS: Hazardous Materials Identification System (USA) WHMIS: Vorkplace Hazardous Materials Information System (USA) WHMIS: Hazardous Daterials Identification System (USA) USO: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent CAS: Chemical Abstract Service Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	epartment