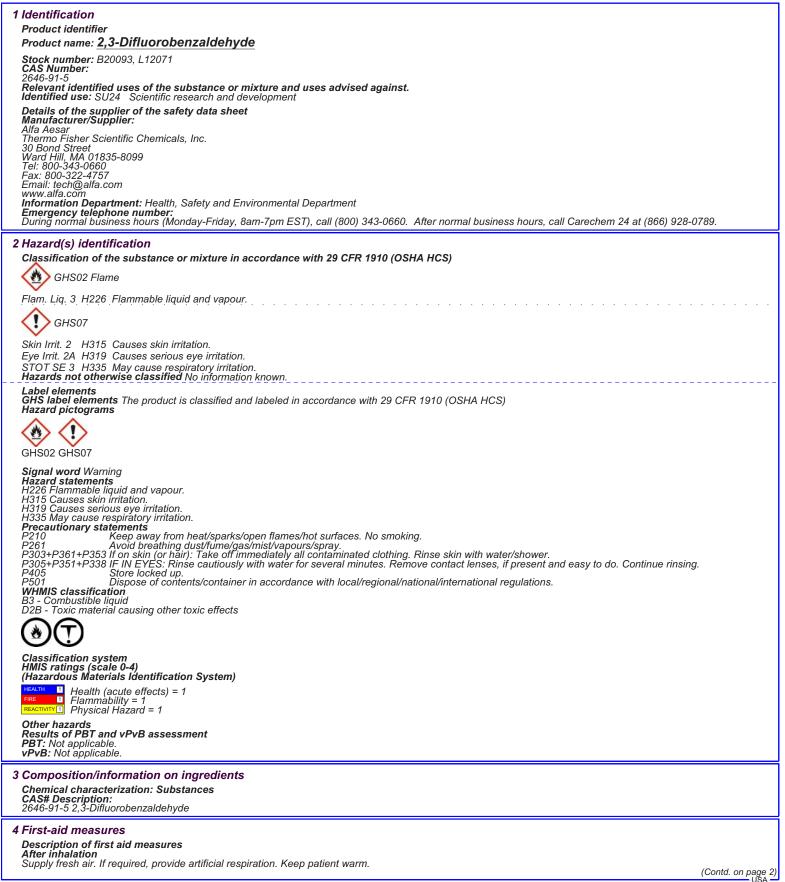


Safety Data Sheet per OSHA HazCom 2012



Product name: 2,3-Difluorobenzaldehyde (Contd. of page 1) 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. 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 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. Environmental precautions: Do not allow material to be released to the environment without Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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 Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Prevent formation of aerosols. Information about protection against explosions and fires: 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. Store away from strong bases. Store away from air. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. 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. 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. Use suitable respiratory protective device in case of insufficient ventilation.

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. **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

USA

Product name: 2,3-Difluorobenzaldehyde

(Contd. of page 2)

9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Color: Yellow tint Odor: Not determined Odor threshold: Not determined. pH-value: Not determined. Change in condition Not determined Boiling point/Belling range: Not determined Sublimation temperature / start: Not determined. Flash point: 58 °C (136 °F) Flash point: 58 °C (136 °F) Flash point: S8 °C (136 °F) Flash point: Not determined. Infinition temperature: Not determined. Decomposition temperature: Not determined. Infinition temperature: Not determined. Infinition temperature: Not determined. Decomposition temperature: Not determined. <td< th=""><th></th></td<>	
Information on basic physical and chemical properties General Information Appearance: Form: Liquid Color: Yellow tint Odor: Not determined Odor threshold: Not determined. pH-value: Not determined. pH-value: Not determined. Boiling point/Melting range: 64-65 °C (147-149 °F) Sublimation temperature / start: Not determined. Flash point: 58 °C (136 °F) Flammability (solid, gaseous) Not determined. Ignition temperature: Not determined. Ignition temperature: Not determined.	
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Flammability (solid, gaseous) Not determinéd. Ignition temperature: Not determined Decomposition temperature: Not determined	
Ignition temperature: Not determined Decomposition temperature: Not determined	
Decomposition temperature: Not determined	
Auto igniting: Not determined	
Danger of explosion: Product does not present an explosion hazard.	
Explosion limits: Lower: Not determined	
Upper: Not determined	
Vapor pressure: Not determined	
Density at 20 °C (68 °F): 1.301 g/cm³ (10.857 lbs/gal) Relative density Not determined.	
Vapor density Not determined.	
Evaporation rate Not determined.	
Solubility in / Miscibility with	
Water: Not determined Partition coefficient (n-octanol/water): Not determined.	
Viscosity:	
dynamic: Not determined.	
kinematic: Not determined. Other information No further relevant information available.	
Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Air Oxidizing agents Bases Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride 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 classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: 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.	
2 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 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.	
vPvB: Not applicable. Other adverse effects No further relevant information available.	
vPvB: Not applicable. Other adverse effects No further relevant information available. 3 Disposal considerations	
vPvB: Not applicable.	

Product name: 2,3-Difluorobenzaldehyde

(Contd. of page 3)

14 Transport Information UN1989 UN proper shipping name Aldehydes, n.o.s. (2,3-Difluorobenzaldehyde) UND (The second	Uncleaned packagings: Recommendation: Disposal must be made according to offic.	ial regulations.
UN-Number DOT, IMDG, IATA UN1989 UN proper shipping name IMDG, IATA Alderythes, n. o.s. (2,3-Diffuorehanzaldehyte) Transport hezard class(es) ALDERYTES, N. O.S. (2,3-Diffuorehanzaldehyte) OUT IMDG, IATA ALDERYTES, N. O.S. (2,3-Diffuorehanzaldehyte) Image: I	14 Transport information	
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15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Hazard pictograms		
H226 Flammable liquid and vapour. H319 Causes skin irritation. H319 Causes serious eye irritation. H735 May cause respiratory irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international 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 rest 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 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, sender Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, center only by technically qualified individuals. Other regulations, limitations 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 res	Hazard pictograms	accordance with 29 CFR 1910 (OSHA HCS)
market and use must be observed. Substance is not listed.	H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P210 Keep away from heat/sparks/open flames// P261 Avoid breathing dust/fume/gas/mist/vapour P303+P361+P353 If on skin (or hair): Take off immediately all P305+P351+P338 IF IN EYES: Rinse cautiously with water for P405 Store locked up. P501 Dispose of contents/container in accordance National regulations This product is not listed in the U.S. Environmental Protection to research and development only. This product must be used product must not be used for commercial purposes or in formu. SARA Section 313 (specific toxic chemical listings) Substa California Proposition 65 Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not list Information about limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the The conditions of restrictions according to Article 67 and market and use must be observed.	r several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ce with local/regional/national/international regulations. Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted by or directly under the supervision of a technically qualified individual as defined by TSCA. This ulations for commercial purposes. ance is not listed. not listed. listed. ted. eally qualified individuals.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is Chemical safety assessment: A Chemical Safety Assessment has not been carried out. ot listed.

16 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 in 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 Date of preparation / last revision 11/23/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

Product name: 2,3-Difluorobenzaldehyde

- DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UD50: Lethal dose, 50 percent VPUB: very Persistent and very Bioaccumulative 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