



Reviewed on 00/04/2013
1 Identification
Product identifier Product name: 3-Fluoro-4-hydroxy-5-methoxybenzaldehyde
Stock number: H66477
CAS Number:
79418-78-3 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660 Fax: 800-322-4757
Email: tech@alfa.com www.alfa.com
Information Department: Health, Safety and Environmental Department Emergency telephone number:
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
CI GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.
Label elements 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 skin irritation.
H319 Causes serious eve irritation.
H335 May cause respiratory irritation. Precautionary statements PROFENSION And the statement of the statemen
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED; Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3381F1N EYES: Rinse cautiously with water for several minutes. Remove contact lenses, it present and easy to do. Continue finsing. P304+P340 IF INHALED: 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.
WHMIS classification D2B - Toxic material causing other toxic effects
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Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1
REACTIVITY Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances
CAS# Description: 79418-78-3 3-Fluoro-4-hydroxy-5-methoxybenzaldehyde
4 First-aid measures
Description of first aid measures
After inhalation Supply fresh air, If required, provide artificial respiration, Keep patient warm,
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After swallowing Seek medical treatment.
(Contd. on page 2) USA

Product name: 3-Fluoro-4-hydroxy-5-methoxybenzaldehyde

(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 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 Handle under dry protective gas. 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 air. Store away from oxidizing agents. 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: 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 eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are n Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. 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. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: Yellow to pale brown Odor: Odor threshold: Not determined Not determined

Not applicable.

114-118 °C (237-244 °F)

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		(Contd. of page 2)
Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower:	Not determined. Not determined	
Upper: Vapor pressure: Density:	Not determined Not applicable. Not determined	
Relative density Vapor density Evaporation rate	Not determined. Not applicable. Not applicable.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water)	Not determined	
Viscosity: dynamic: kinematic:	Not applicable.	
Other information	Not applicable. No further relevant information available.	
O Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions & Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Air Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride	nt 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 effect	erious eye irritation. nown. aown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
2 Ecological information Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes:	ther relevant information available. relevant information available. rmation available.	
Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva		
3 Disposal considerations Waste treatment methods	or national regulations to ensure proper disposal.	
4 Transport information		
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UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN-Number DOT, ADN, IMDG, IATA UN proper shipping name DOT, ADN, IMDG, IATA Transport hazard class(es)	Not applicable Not applicable	
UN-Number DOT, ADN, IMDG, IATA UN proper shipping name DOT, ADN, IMDG, IATA Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class		
UN-Number DOT, ADN, IMDG, IATA UN proper shipping name DOT, ADN, IMDG, IATA Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA	Not applicable	

USA -

Product name: 3-Fluoro-4-hydroxy-5-methoxybenzaldehyde		
	(Contd. of page 3)	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/		
Transport/Additional information:		
DOT		
Marine Pollutant (DOT):	No	
UN "Model Regulation":	<u> </u>	
5 Regulatory information		
Safety, health and environmental regulations/legislatio GHS label elements The product is classified and labeled Hazard pictograms	on specific for the substance or mixture d in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07		
P304+P340 IF INHALED: Remove person to fresh a Store locked up. P501 Dispose of contents/container in accord National regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be u uproduct must not be used for commercial purposes or in fo This product is not listed on the Canadian Domestic Subst SARA Section 313 (specific toxic chemical listings) Su California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed on the Vicity Substance is not listed on functive substance is not listed on the regulations of 5 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed on the regulations, limitations and prohibitive regulation Substance of Very High Concern (SVHC) according to The conditions of restrictions according to Article 67 a market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Autho Chemical Safety Assesson)	hing/eyé protection/face protection. er for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. air and keep comfortable for breathing. rdance with local/regional/national/international regulations. ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ormulations for commercial purposes. istances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). ubstance is not listed. e is not listed. d. not listed. ot listed. b the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the orisation for use) Substance is not listed.	
information to ensure proper use and protect the health an conformance with this Material Safety Data Sheet, or in co	ent to other information gathered by them, and should make independent judgement of suitability of this nd safety of employees. This information is furnished without warranty, and any use of the product not in ombination with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par R DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal concentration, 50 percent LDS0: Lethal dose, 50 percent vPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA)	Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	

ACGIN: Animatical Conference of Governmental minimatical Hyg OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)