



Reviewed on 12/17.	/2007
1 Identification	
Product identifier	
Product name: <b>2-Fluoro-4-methylbenzaldehyde</b> Stock number: H26626	
CAS Number:	
146137-80-6 <b>Relevant identified uses of the substance or mixture and uses advised against.</b> 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: 800-232-4757	
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)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory 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 eye irritation.	
H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eve protection/face protection	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P381 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.	
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	
(T)	
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: 146137-80-6 2-Fluoro-4-methylbenzaldehyde	
4 First-aid measures	
Description of first aid measures After inhalation	
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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatment.	2000 01
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## Product name: 2-Fluoro-4-methylbenzaldehyde (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 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: 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 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 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 context with the everage and exin 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: Protection of nands: 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: Liquid Colorless Color: Not determined Odor: Odor threshold: Not determined. Not determined. pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Flash point: Not determined Flammability (solid, gaseous) Ignition temperature: Not determined. Not determined (Contd. on page 3)

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		(Contd. of page 2)		
Decomposition temperature: Auto igniting:	Not determined Not determined.	(======================================		
Danger of explosion:	Product does not present an explosion hazard.			
Explosion limits:				
Lower: Upper:	Not determined Not determined			
Vapor pressure:	Not determined			
Density: Relative density	Not determined Not determined.			
Vapor density	Not determined.			
Evaporation rate Solubility in / Miscibility with	Not determined.			
Water:	Not determined			
Partition coefficient (n-octanol/water Viscosity:	<b>1).</b> Not determined.			
dynamic: kinematic:	Not determined. Not determined.			
Other information	No further relevant information available.			
10 Stability and reactivity Reactivity No information known.				
Chemical stability Stable under record	nmended storage conditions. <b>to be avoided</b> : Decomposition will not occur if used and stored according to specifications.			
Thermal decomposition / conditions Possibility of hazardous reactions N	to be avoided: Decomposition will not occur if used and stored according to specifications.			
Conditions to avoid No further releva	nt information available.			
Incompatible materials: Oxidizing age Hazardous decomposition products	ents			
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 Skin irritation or corrosion: Causes	r <b>classification:</b> No data			
Eye irritation or corrosion: Causes s	erious eye irritation.			
Sensitization: No sensitizing effects k Germ cell mutagenicity: No effects k	nown.			
Carcinogenicity: No classification dat	a on carcinogenic properties of this material is available from the FPA. IARC, NTP, OSHA or ACGIH.			
Reproductive toxicity: No effects kno	own. y - repeated exposure: No effects known.			
Specific target organ system toxicit	y - single exposure: May cause respiratory irritation.			
Aspiration hazard: No effects known.				
Additional toxicological information	ects known. : 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 in Persistence and degradability No fur	nformation available.			
Persistence and degradability No fun Bioaccumulative potential No further	r relevant information available.			
Mobility in soil No further relevant info	ormation 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 coursé 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	vant 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.			
<b>14 Transport information</b> Not a hazardous material for transporta	ation.			
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 Anne	ex II of MARPOL73/78 and the IBC Code Not applicable.	(Contd. on page 4)		
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Product name: 2-Fluoro-4-methylbenzaldehyde			
	(Contd. of page 3)		
Transport/Additional information:	Not dangerous according to the above specifications.		
DOT Marine Pollutant (DOT):	No		
P304+P340       IF INHALED: Remove person to fresh air is P405         Store locked up.       P501         Dispose of contents/container in accordant <b>National regulations</b> This product is not listed in the U.S. Environmental Protectior to research and development only. This product must be used product must not be used for commercial purposes or in form <b>SARA Section 313 (specific toxic chemical listings)</b> Subst California Proposition 65         Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed. <td>accordance with 29 CFR 1910 (OSHA HCS) irs/spray. /eye protection/face protection. /eye protection/face protection. or several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. and keep comfortable for breathing. Ince with local/regional/national/international regulations. In Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted d by or directly under the supervision of a technically qualified individual as defined by TSCA. This ulations for commercial purposes. tance is not listed. Isted. Isted. sted. cally qualified individuals. <b>e REACH Regulations (EC) No. 1907/2006.</b> Substance is not listed. <b>f Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the</b> <b>sation for use)</b> Substance is not listed.</td>	accordance with 29 CFR 1910 (OSHA HCS) irs/spray. /eye protection/face protection. /eye protection/face protection. or several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. and keep comfortable for breathing. Ince with local/regional/national/international regulations. In Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted d by or directly under the supervision of a technically qualified individual as defined by TSCA. This ulations for commercial purposes. tance is not listed. Isted. Isted. sted. cally qualified individuals. <b>e REACH Regulations (EC) No. 1907/2006.</b> Substance is not listed. <b>f Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the</b> <b>sation for use)</b> Substance is not listed.		
information to ensure proper use and protect the health and s	to other information gathered by them, and should make independent judgement of suitability of this safety of employees. This information is furnished without warranty, and any use of the product not in bination with any other product or process, is the responsibility of the user.		
Department issuing SDS: Global Marketing Department Date of preparation / last revision 1//24/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods 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 LD50: Lethal concentration, 50 percent US9: 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)			

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