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Stock number: H33616 CASE Monthly: Reference and search and even particular and uses advised against. Handhald of the supplier of the safety data shoet Advisor of the safety data shoet	
CAS Number: Construction	Product name: 4-Fluoro-3-iodobenzaldehyde
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Email: Ign/Balla.com Information Poartment: Health, Safety and Environmental Department Emergency Reliphon number: Emergency Reliphon Reliphon Number: Emergency Reliphon Reli	Ward Hill, MA 01835-8099 Tel: 800-343-0660
Information Department: Health. Safety and Environmental Department During formal business hours, the whordsy-Friday. Barn-Tym 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) Image: Section of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Section of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Section of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Section of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Section of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Section of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Section of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Image: Section of the substance of the section fraction Image: Section of the substance of the section fraction Image: Section of the substance of the section fraction Image: Section of the section of the section of the section fraction Image: Section of the section of the section of the section fraction in accordance with 29 CFR 1910 (OSHA HCS) Image: Section of the section of the section fraction in accordance with 29 CFR 1910 (OSHA HCS) Image: Sectin of the section of the sectin of the section fraction	Email: tech@alfa.com
During normal business hours (Monday-Friday, Bam-Tym EST), call (800) 943-0660. After normal business hours, call Carachem 24 at (866) 928-0789. 2 Hazard(s) identification Chasification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Win III: 4. 1915 Causes somula by imitation. Hazards not otherwise classified No information. Hazards southerwise classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Win Signal word Warning Hazard statements GHS label elements information. Hazard statements Hazard pictograms Wint Chastification of the substance or information. Hazard pictograms Wint Chastification information information. Hazard pictograms Wint Chastification information information information.	Information Department: Health. Safety and Environmental Department
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Ever Init: 2A H319 Causes exploratory with lation. Hazards not otherwise classified to information known. Hazards not otherwise classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictory GHS0 GHS	GHS07
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Hazards not otherwise classified No information known. Labbei elements GHS label elements GHS07 Signal word Warning Hazard pictograms GHS07 Signal word Warning Hazard pictograms H355 May cause respiration. H316 Causes serious eve initiation. H317 Causes reprint ation. H316 Causes serious eve initiation. H317 Causes reprint ation. H318 Causes reprint ation. H317 Cause reprint ation. H317 Causes reprint ation. H318 Causes reprint ation. H317 Cause reprint ation. H318 Causes reprint ation. H318 Cause reprint ation. Dispose of contiantscontation ow with local/regional/national/inte	Eye Irrit. 2A H319 Causes serious eye irritation.
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Signal word Warning Hazard statements High Causes shiming with initiation. High Causes shiming with initiation. High Cause shiming initiation. High Cause shiming initiation. High Cause shiming initiation. High Cause for the shift of t	CHS07
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H19 Causes serious eye initiation. H33 May cause respiratory initiation. Precautionary statements Procautionary statements Productionary stateme	Hazard statements
P261 Avoid breathing dust/lume/gas/mist/vapours/spray. P260 P261+P3261+P328 IF: IN EYES; Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300+P351+P328 IF: IN EYES; Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300+P351+P328 IF: IN EYES; Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300+P351+P328 IF: IN EYES; Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300+P351+P328 IF: IN EYES; Rinse caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300+P31+P31 Figure 10 (Figure 10 (Figu	H319 Causes serious eve irritation.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMUS classification Dispose of contents/container in accordance with local/regional/national/international regulations. WDB Toxic material causing other toxic effects Image: Classification system Hair and the system HMIS ratings (scale 0-4) Hair and the system HMIS ratings (scale 0-4) Health (accube effects) = 1 (Hazardous Material Identification System) Health (accube effects) = 1 Physical Hazard = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. vPvB: Not applicable. Supplicable.	Precautionary statements
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMUS classification Dispose of contents/container in accordance with local/regional/national/international regulations. WDB Toxic material causing other toxic effects Image: Classification system Hair and the system HMIS ratings (scale 0-4) Hair and the system HMIS ratings (scale 0-4) Health (accube effects) = 1 (Hazardous Material Identification System) Health (accube effects) = 1 Physical Hazard = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. vPvB: Not applicable. Supplicable.	P201 Wear protective gloves/protective clothing/eye protection/face protection. P280 Wear protective gloves/protective clothing/eye protection/face protection. P205: P251: P228 IE IN EXES: Pinso cautiously with worth an sourced minutes. Pomovo contact longon, if prosent and easy to do. Continue ringing
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D28 - Toxic material causing other toxic effects Image: Classification system Provide antification System HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: Health (acute effects) = 1 Provide antification System Plantmability = 1 Plantmability = 1 Paramability = 1 Plantmability = 1 Paramability = 1 Plantmability = 1 Paramability = 1 Plantmability = 1 Plantmability = 1 Plantmability = 1	P304+P340 IF INFALED. The callously will wate to several minutes. Nentive contact tenses, it present and easy to do. Continue mising. P304+P340 IF INFALED: Remove person to fresh air and keep comfortable for breathing.
D2B - Toxic material causing other toxic effects D2B Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) (Hazardous Materials Identification System) Health (acute effects) = 1 Physical Heazrd = 1 Other hazards Results of PBT and VPVB assessment PBT: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CASH Description: 22 7609-88-3 4-Fluoro-3-iodobenzaldehyde 4 First-aid measures Description of first aid measures After shin contact Immediate medical advice. After skin contact Immediate medical advice. After skin contact Immediate medical advice. After swallowing Seek medical treatment. Seek immediate treatment	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
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Image: Section of the image: Section of the image in the image. Image in the image. Image in the image. Image in the image. Image in the	HEALTH I Health (acute effects) = 1 FRE I Flammability = 1
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 227609-88-3 4-Fluoro-3-iodobenzaldehyde 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 eye contact Rinse opened eye for several minutes under running water.	REACTIVITY Physical Házard = 1
vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 227609-88-3 4-Fluoro-3-iodobenzaldehyde 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 see contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After swallowing Seek medical treatment.	Results of PBT and vPvB assessment
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Chemical characterization: Substances CAS# Description: 227609-88-3 4-Fluoro-3-iodobenzaldehyde 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.	3 Composition/information on ingredients
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Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	After skin contact
After swallowing Seek medical tréatment.	Seek immédiate medical advice.
USA	

Product name: 4-Fluoro-3-iodobenzaldehyde (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) Hydrogen iodide (HI) 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 Handle under dry protective gas. Keep container tightly sealed. 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: Refrigerate Information about storage in one common storage facility: Store away from air. Store in the dark. Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Protect from exposure to light. Petriografa Refrigerate 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 Personal protective equipment General protective and hygienic measures General protective and nyglenic 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. Breatning 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: Solid Odor: Odor threshold: Not determined Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: 65-67 °C (149-153 °F) (Contd. on page 3)

Product name: 4-Fluoro-3-iodobenzaldehvde

Page 3/4 Printing date 11/24/2015 Reviewed on 03/28/2013

1 Fluence Q indeber		/lewed on 03/28/2
oduct name: 4-Fluoro-3-iodobena	zaldehyde	
D- III cint/Doiling range	A for a start way to a start	(Contd. of pag
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined.	
gnition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density:	Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water	Not determined	
Viscosity:		
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
Stability and reactivity		
Reactivity No information known		
Chemical stability Stable under recor	mmended storage conditions. s to be avoided: Decomposition will not occur if used and stored according to specifications.	
hermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions R Conditions to avoid No further releval	Reacts with strong oxidizing agents	
Conditions to avoid No further releval ncompatible materials:	nt information available.	
Air ·		
Oxidizing agents Heat		
Heat Light		
Hazardous decomposition products:	К.	
Carbon monoxide and carbon dioxide		
Hydrogen fluoride Hydrogen iodide (HI)		
Foxicological information		
•		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for	r classification: No data	
Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes s	serious eve irritation	
Sensitization: No sensitizing effects k	(nown.	
Sensitization: No sensitizing effects ki Germ cell mutagenicity: No effects kr		
Carcinogenicity: No classification data Reproductive toxicity: No effects kno	ta on carcinogenic properties of this material is available from the EPA. IARC. NTP. OSHA or ACGIH.	
Specific target organ system toxicity	t y - repeated exposure: No effects known.	
Specific target organ system toxicit	• single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effe Additional toxicological information:	ects known. 1: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
leviest information		
Ecological information		
Toxicity Aquatic toxicity: No further relevant ir	information available	
Persistence and degradability No fur	irther relevant information available.	
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	o the environment without proper governmental permits.	
Do not allow undiluted product or large	e quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessme	nnf	
PBT: Not applicable.		
vPvB: Not applicable.	e a companya da	
Other adverse effects No further relev	vant information available.	
Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local	I or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be r	made according to official regulations.	
Transport information		
UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		_
DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
		(Contd. on pa

	Reviewed on 03/26/2013
Product name: 4-Fluoro-3-iodobenzaldehyde	
_	(Contd. of page 3)
Packing group	
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPC	DL73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marina Ballutant (DOT):	A1-
Marine Pollutant (DOT):	No
UN "Model Regulation":	-
15 Regulatory information	
Safety, health and environmental regulations/legis GHS label elements The product is classified and lal Hazard pictograms	slation specific for the substance or mixture beled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
 P305+P351+P338 IF IN EYES: Rinse cautiously with P304+P340 IF INHALED: Remove person to fr P405 Store locked up. P501 Dispose of contents/container in a National regulations This product is not listed in the U.S. Environmental PI to research and development only. This product must product must not be used for commercial purposes of This product is not listed on the Canadian Domestic S SARA Section 313 (specific toxic chemical listing: California Proposition 65 Prop 65 - Chemicals known to cause cancer Subst Prop 65 - Developmental toxicity, female Substance Information about limitation of use: For use only by Other regulations, limitations and prohibitive regulations of restrictions according to Article market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring A Chemical safety assessment: A Chemical Safety Asternal Safety Asterna	clothing/eye protection/face protection. n water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. resh air and keep comfortable for breathing. accordance with local/regional/national/international regulations. Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted t be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This rin formulations for commercial purposes. Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Is) Substance is not listed. listed. ce is not listed. is not listed. is not listed. y technically qualified individuals. ulations ng to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. e 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
conformance with this Material Safety Data Sheet, or	olement to other information gathered by them, and should make independent judgement of suitability of this Ith and safety of employees. This information is furnished without warranty, and any use of the product not in in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Departm Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuse. DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical S HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada, LC50: Lethal dose Alazindous Materials Information System (Canada, LC50: Lethal concentration, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (L OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	ment es par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Society) a) USA)

USA ____