

1 Identification Product identifier Product name: 3-Fluoro-5-iodopyridine Stock number: H64770 **CAS Number:** 757950-13-3 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar Alla Aesai Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 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 Acute Tox. 4 H302 Harmful if swallowed. 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 H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements D061 Precautionary statements 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. P405 P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects Т Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 
 EALTH
 2
 Health (acute effects) = 2

 RE
 1
 Flammability = 1

 EACTIVITY
 1
 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: 757950-13-3 3-Fluoro-5-iodopyridine 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. (Contd. on page 2)

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(Contd. of page 1) 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 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) Nitrogen oxides (NOx) 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:** Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. **Revention 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. 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. Keep container tightly sealed. Protect from exposure to light. 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: 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 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. 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. **Recommended filter device for short term use:** Use a respirator with type P100 (USA) or P3 (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: Color: Solid Off-white Odor: Not determined (Contd. on page 3)

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Product name: 3-Fluoro-5-iodopyric	dine	
		(Contd. of page 2)
Odor threshold:	Not determined.	
pH-value: Change in condition	Not applicable.	
Change in condition Melting point/Melting range:	Not determined	
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined	<b>I</b>
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density:	Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water) Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	Not applicable. No further relevant information available.	
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10 Stability and reactivity		1
Reactivity No information known. Chemical stability Stable under recom	nmended storage conditions.	
Thermal decomposition / conditions	to be avoided: Decomposition will not occur it used and stored according to specifications.	
Possibility of hazardous reactions Re Conditions to avoid No further relevan	eacts with strong oxidizing agents Int information available.	
Incompatible materials: Air		
Oxidizing agents		
Heat Light		
Hazardous decomposition products:	:	
Carbon monoxide and carbon dioxide Hydrogen fluoride		1
Hydrogen iodide (HI) Nitrogen oxides		I
		i
11 Toxicological information		
Information on toxicological effects Acute toxicity: Harmful if swallowed.		1
LD/LC50 values that are relevant for o	classification: No data	
Skin irritation or corrosion: Causes su Eye irritation or corrosion: Causes se	erious eye irritation.	
Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn	nown.	
Carcinogenicity: No classification data	ta on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive foxicity: No effects know Specific target organ system toxicity	own. v - repeated exposure: No effects known.	
Specific target organ system toxicity	y - single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	ects known.	
Additional toxicological information:	: 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 im Persistence and degradability No furt Bioaccumulative potential No further	Iformation available.	
Bioaccumulative potential No further	relevant information available.	
Additional ecological information:	ormation available.	
General notes:		
Avoid transfer into the environment.	e quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessmen PBT: Not applicable.	nt	
vPvB: Not applicable.	e to the second s	
Other adverse effects No further releva	rant information available.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local	l or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be made according to official regulations.		
14 Transport information		
UN-Number	Nataonlianha	
DOT, ADN, IMDG, IATA	Not applicable	(Contd. on page 4)

Product name: 3-Fluoro-5-iodopyridine			
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UN proper shipping name DOT, ADN, IMDG, IATA Not applicable			
Transport hazard class(es)			
DOT, ADR, ADN, IMDG, IATA			
Class Not applicable			
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 MARPOL73/78 and the IBC Code Not applicable.			
Transport/Additional information: DOT			
Marine Pollutant (DOT): No			
UN "Model Regulation": -			
45 Desculators information			
15 Regulatory 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 CUC07			
GHS07 Signal word Warning Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H315 May cause respiratory irritation. H315 May cause respiratory irritation. H315 May cause respiratory irritation. P280 Wear protective gloves/protective/protection/face protection. P305.P351+P338 JF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305.P351+P338 JF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305.P351+P338 JF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305.P351+P338 JF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305.P351.P338 JF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305.P351.P338 JF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305.P351.P338 JF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305.P351.P338 JF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305.P351.P338 JF IN EYES. Rinse cautiously water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305.P351.P338 JF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305.P351.P338 JF IN EYES.P31.P331.P312.P312.P312.P312.P312.P312.			
<ul> <li>16 Other information         Employers should use this information only as a supplement to other information gathered by them, and should information to ensure proper use and protect the health and safety of employees. This information is furnished conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the response of preparation / last revision 11/24/2015 / -     </li> <li>Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -</li> <li>Abbreviations and acronyms:</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of a DOT: US Department of Transportation</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>HMIS: Hazardous Materials Information System (Canada)</li> <li>LC50: Lethal doncentration, 50 percent</li> <li>VPW: very Persistent and very Bioaccumulative</li> <li>ACGIH: American Conference of Governmental Industrial Hygienists (USA)</li> <li>OSHA: Occupational Safety and Health Administration (USA)</li> <li>NTP: National Toxicology Program (USA)</li> <li>NTP: National Toxicology Program (USA)</li> <li>NAR: Chemical Agency (TResearch on Cancer EPA: Environmental Protection Agency (USA)</li> </ul>	l without warranty, and any use of the product not in esponsibility of the user.		