



Reviewed	on 12/12/2011
1 Identification	
Product identifier	
Product name: <u>3-Fluoro-2-nitropyridine</u>	
Stock number: H33813 CAS Number:	
54231-35-5 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 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	Э.
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. Eve Irrit. 2A H319 Causes serious eve 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/eye protection/face protection.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, it 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	
(\mathbf{T})	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1	
FIRE I 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:	
54231-35-5 3-Fluoro-2-nitropyridine	
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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical tréatment.	ontd. on page 2)

Product name: 3-Fluoro-2-nitropyridine (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 Nitrogen oxides (NOx) Hydrogen fluoride (HF) Possibly Hydrogen cyanide (HCN) 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 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: 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 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 present. Protection of hands: Impervious gloves Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable 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: Fused solid Color: Dark brown Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition Melting point/Melting range: 30-35 °C (86-95 °F) Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Not determined Not determined Not determined. Ignition temperature: Not determined (Contd. on page 3)

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		ntd. of page
Decomposition temperature:	Not determined	
Auto igniting: Danger of explosion:	Not determined. Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/wate	Not determined	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
0 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under reco Thermal decomposition / condition	ommended storage conditions. I s to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of nazardous reactions i	INO danderous reactions known	
Conditions to avoid No further relevant incompatible materials: Oxidizing ag	ant information available. gents	
Hazardous decomposition products Carbon monoxide and carbon dioxide	S:	
Nitroaen oxides		
Hydrogen fluoride Possibly Hydrogen cyanide (HCN)		
1 Toxicological information		
Information on toxicological effects	\$	
Acute toxicity: No effects known.		
LD/LC50 values that are relevant fo Skin irritation or corrosion: Causes		
Eye irritation or corrosion: Causes :	serious eve irritation.	
Sensitization: No sensitizing effects I Germ cell mutagenicity: No effects I	known. known.	
Carcinogenicity: No classification da	ata on carcinogenic properties of this material is available from the EPA. IARC. NTP. OSHA or ACGIH.	
Reproductive toxicity: No effects kn Specific target organ system toxicit	i tv - repeated exposure: No effects known.	
Specific target organ system toxicit Aspiration hazard: No effects known	ty - single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No eff	fects known.	
Additional toxicological information	n : 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 fu Bioaccumulative potential No furthe	urther relevant information available.	
Bioaccumulative potential No furthe Mobility in soil No further relevant in	r relevant information available. formation available	
Additional ecological information:		
General notes: Do not allow material to be released to	to 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	ent	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further rele	evant information available.	
3 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, loca Uncleaned packagings:	al or national regulations to ensure proper disposal.	
Recommendation: Disposal must be	e made according to official regulations.	
4 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		
Class	Not applicable	
	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Environmental hazards: Special precautions for user		

Safety Data Sheet per OSHA HazCom 2012

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roduct name: 3-Fluoro-2-nitropyridine		
(Contd. of page 3)		
No		
s/legislation specific for the substance or mixture Ind labeled in accordance with 29 CFR 1910 (OSHA HCS)		
as/mist/vapours/spray. crive clothing/eye protection/face protection. y with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. n to fresh air and keep comfortable for breathing. er in accordance with local/regional/national/international regulations. ntal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted t must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ses or in formulations for commercial purposes. stings) Substance is not listed. Substance is not listed. stance is not listed. interd. ance is not listed. stance is not listed. ance is not listed. ance is not listed. ance is not listed. stance is not listed. Article 67 and Annex XVII of the Regulation (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the regulations for use) Substance is not listed. Substance has not been carried out.		
a supplement to other information gathered by them, and should make independent judgement of suitability of this e health and safety of employees. This information is furnished without warranty, and any use of the product not in et, or in combination with any other product or process, is the responsibility of the user.		
epartment //- handises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) pereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) emical Society) Canada)		

vPvB: 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)