SAFETY DATA SHEET

fluoro**chem.**

1. Identification of Substance / Mixture

Product Identifier	
1.1.2 Product Name	3-Chloro-2-fluoro-4-(trifluoromethyl)pyridine
1.1.2 Other Names	
1.1.1 Product Code	F751669
1.1.3 CAS	1227496-80-1
1.1.4 MDL	
1.1.5 EINECS	N/A
1.1.6 REACH Registration Number	
1.2.1 Relevant Uses	For research and development purposes only.
1.2.2 Uses Advised Against	No uses advised against.
1.3 Supplier Details	
1.3.1 Company	Fluorochem Ltd
1.3.2 Address	Unit 14, Graphite Way
	Hadfield Glossop Derbys. SK13 1QH
	United Kingdom
1.3.3 Telephone	01457 860111
1.3.4 Email	sds@fluorochem.co.uk
1.4.1 Emergency Telephone	+44 20 3807 3798
2. Hazards Identification	
2.1.1 Classification	
	Eye Irrit. 2A Skin Sens. 1
2.2.1 Signal Word	Warning
2.2.2 Pictograms	
	GHS07
2.2.3 Hazards	H317 May cause an allergic skin reaction.
	H319 Causes serious eye irritation.
2.2.4 Precautions	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
	P272 Contaminated work clothing should not be allowed out of the workplace. P280.4 Wear protective gloves/protective clothing and eye/face protection.
	P302+P352.1 IF ON SKIN: Wash with plenty of water.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308+P313 IF exposed or concerned: Get medical advice/attention. P321 Specific treatment.
	P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.
	P362+P364 Take off contaminated clothing and wash it before reuse

P362+P364 Take off contaminated clothing and wash it before reuse.

P501.3 Dispose of contents/container to hazardous waste disposal.

P405 Store locked up.

2.2.5 Other Classification Hazards

3. Composition of Ingredients

SUBSTANCE				
3.1.1 Name	3.1.2 CAS	Einecs	3.1.3 Composition	Hazards
3-Chloro-2-fluoro-4- (trifluoromethyl)pyridine	1227496-80-1	N/A		H317 Skin Sens. 1 H319 Eye Irrit. 2A

4. First Aid Measures

4.1.1 Eye contact	Where Diphoterine is not available, rinse eyes with copious amounts of water for at least 20 minutes. Protect uninjured eye. Remove contact lenses if present and easy to do. Continue rinsing and seek immediate medical attention.
4.1.2 Ingestion	If swallowed rinse the mouth with plenty of water (only if the person is conscious) and contact a poison centre or physician if you feel unwell.
4.1.3 Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration and seek immediate medical attention.
4.1.4 Skin Contact	After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately. In case of skin reactions, consult a physician.
4.1.5 General Advice	No additional advice.
4.2.1 Most Important Symptoms and Effects	No known symptoms or effects.
4.3.1 Immediate First Aid Measures	No special immediate treatment required

5. Fire Fighting Measures

5.1.1 Suitable Fire Extinguishing Media	Carbon dioxide, alcohol resistant foam or dry chemical powder. Use water to extinguish fire.
5.1.2 Unsuitable Fire Extinguishing Media	No known unsuitable media.
5.2.1 Special Hazards	Thermal decomposition can lead to release of irritating gases and vapours.
5.3.1 Advice for Fire Fighters	As in any fire, wear self-contained breathing apparatus and full protective gear.
6. Accidental Release Measure	es

6.1.1 Personal Precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak.
6.2.1 Environmental Precautions	Prevent further leakage if safe to do so. Prevent product from entering drains. Do not let product enter waterways or sewer systems. Discharge into the environment must be avoided.
6.3.1 Containment - Methods and Materials	Absorb the spilled material with an inert absorbent (e.g. sand, silica gel, rag, vermiculite) before transferring into an airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations.
6.4.1 Referenced SDS Sections	For personal protection see section 8. For disposal see section 13.

7. Handling and Storage

Personal Precautions

7.1.1 Safe Handling	Wear appropriate personal protective equipment. Use only under a chemical fume hood. Keep away from heat/ sparks/open flame/hot surfaces. Take measures to prevent the build-up of electrostatic charge. Ensure adequate exhaust ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. For precautions see section 2.2.
7.1.2 Protection Against Explosion and Fire	Where possible, use anti static and spark proof equipment when handling.
7.1.3 General Occupational Hygiene	Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

Conditions for Safe Storage and Incompatabilities

Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.
Keep container tightly closed in a cool area away from sunlight or heat sources.
Keep container tightly closed in a cool area away from sunlight or heat sources.
No other specific advice available.
No specific end uses are advised. The products supplied are for research purposes only.

8. Exposure Controls / Personal Protection

8.1.1 Control Parameters

8.2.1 Engineering Measures	Use only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Use explosion- proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
8.2.2 Face Protection	Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand.
8.2.3 Hand Protection	Handle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
8.2.4 Skin Protection	Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1 standards. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
8.2.5 Respiratory Protection	Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed under normal use conditions.
8.2.6 Hygiene Protection	Ensure hair or skin particles cannot enter the chemical container.
8.2.7 Environment Exposure Controls	Avoid discharge into the environment, see section 6.2.

9. Physical and Chemical Properties

9.1.1 State	No data available.
9.1.2 Appearance	No data available.
9.1.3 Odour	No data available.
9.1.4 Odour Threshold	No data available.
9.1.5 pH	No data available.
9.1.6 Melting Point / Freezing Point	No data available.
9.1.7 Initial Boiling Point	No data available.
9.1.8 Boiling Range	No data available.
9.1.9 Flash Point	No data available.
9.1.10 Evaporation Rate	No data available.
9.1.11 Flammability	No data available.
9.1.12 Upper / Lower Flammability or Explosion Limits	No data available.
9.1.13 Vapour Pressure	No data available.
9.1.14 Vapour Density	No data available.
9.1.15 Relative Density	No data available.
9.1.16 Solubility	
9.1.17 Partition Coefficient	No data available.
9.1.18 Auto Ignition Temperature	No data available.
9.1.19 Decomposition Temperature	No data available.
9.1.20 Viscosity	No data available.
9.1.21 Explosive Properties	No data available.
9.1.22 Oxidising Properties	No data available.
9.2.1 Other information	No additional information available.

10. Stability and Reactivity

10.1.1 Reactivity	No known Reactivity, based on information available.
10.2.1 Stability	Stable under recommended storage conditions.
10.3.1 Possibility of Hazardous Reactions	None under normal storage conditions.
10.4.1 Conditions To Avoid	Heat, sparks, open flames, sources of ignition. Exposure to moisture.
10.5.1 Incompatible Materials	Strong oxidising agents.
10.6.1 Hazardous Decomposition Products	No Data Available.

11. Toxicology Information

11.1.1 Acute Toxicity	No Toxicolog
11.1.2 Skin Corrosion / Irritation	No Toxicolog
11.1.3 Serious Eye Damage / Irritation	No Toxicolog
11.1.4 Respiratory or Skin Sensitisation	May cause a
11.1.5 Germ Cell Mutagenicity	No Toxicolog
11.1.6 Carcinogenicity	No Toxicolog

Io Toxicology data available for this product.

11.1.7 Reproductive Toxicity

	SUIRA	No Toxicology data available	for this product.		
11.1.8 STOT-single Expo	Joure				
1.1.9 STOT-repeated Ex	cposure	No Toxicology data available	for this product.		
1.1.10 Aspiration Haza	rd	No Toxicology data available	for this product.		
11.2.1 Additional Toxico	logy Information	No Toxicology data available	for this product.		
12. Ecological Ir	formation				
2.1.1 Toxicity		No Ecological data available	for this product.		
2.2.1 Persistence and I	Degradability	No Ecological data available	for this product.		
2.3.1 Bio-Accumulative	e Potential	No Ecological data available	for this product.		
12.4.1 Mobility in Soil		No Ecological data available	for this product.		
12.5.1 Results of PBT a	nd vPvB assessment	No Ecological data available	for this product.		
2.7.1 Endocrine Disrup	ting Properties	No Ecological data available	for this product.		
12.6.1 Other Adverse Ef		No Ecological data available	for this product.		
13. Disposal Col 13.1.1 Disposal Operation	nsiderations	Ensure product is disposed o	f by licensed waste carriers.	te carriers. Some OUTER P	ACKAGING MAY be
13. Disposal Co	nsiderations	Ensure product is disposed o	f by licensed waste carriers. is disposed of by licensed wast	te carriers. Some OUTER P/	ACKAGING MAY be
3.1.1 Disposal Col 3.1.1 Disposal Operatio 3.1.2 Disposal of Packa	nsiderations ons aging	Ensure product is disposed c Ensure INNER PACKAGING	f by licensed waste carriers. is disposed of by licensed wast	te carriers. Some OUTER P/	ACKAGING MAY be
13. Disposal Col 13.1.1 Disposal Operation	nsiderations ons aging	Ensure product is disposed c Ensure INNER PACKAGING	f by licensed waste carriers. is disposed of by licensed wast	te carriers. Some OUTER P/ IMDG UN Number	ACKAGING MAY be
 13. Disposal Col 3.1.1 Disposal Operation 3.1.2 Disposal of Packa 14. Transport Information ATA UN Number 4.1.2 IATA Proper 	nsiderations ons aging	Ensure product is disposed of Ensure INNER PACKAGING recyclable if not contaminated ADR UN Number ADR Proper Shipping 2- Name	f by licensed waste carriers. is disposed of by licensed wast		ACKAGING MAY be Non Hazardous For Transport (3-Chloro-2- fluoro-4-(trifluoromethyl) pyridine)
3. Disposal Col 3.1.1 Disposal Operatio 3.1.2 Disposal of Packa 4. Transport Inf ATA UN Number 4.1.2 IATA Proper hipping Name	nsiderations ons aging ormation Non Hazardous For Transport (3-Chloro- fluoro-4-(trifluoromet	Ensure product is disposed of Ensure INNER PACKAGING recyclable if not contaminated ADR UN Number ADR Proper Shipping 2- Name	f by licensed waste carriers. is disposed of by licensed wast d. g Non Hazardous For Transport (3-Chloro-2- fluoro-4-(trifluoromethyl)	IMDG UN Number IMDG Proper Shipping	Non Hazardous For Transport (3-Chloro-2- fluoro-4-(trifluoromethyl)
13. Disposal Col 13.1.1 Disposal Operatio 13.1.2 Disposal of Packa 14. Transport Inf	nsiderations ons aging ormation Non Hazardous For Transport (3-Chloro-: fluoro-4-(trifluoromet pyridine)	Ensure product is disposed of Ensure INNER PACKAGING recyclable if not contaminated ADR UN Number ADR Proper Shipping 2- Name hyl)	f by licensed waste carriers. is disposed of by licensed wast d. g Non Hazardous For Transport (3-Chloro-2- fluoro-4-(trifluoromethyl)	IMDG UN Number IMDG Proper Shipping Name	Non Hazardous For Transport (3-Chloro-2- fluoro-4-(trifluoromethyl)

No Toxicology data available for this product.

15.1.1 Regulatory Information As far as Fluorochem is aware, there are no further regulations controlling this product.

15.2.1 Chemical Safety No Chemical Safety Assessment is available for this product. Assessment

16. Other Information

16.1.2 Information Not Covered in Other Sections	ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road) RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS:Chemical Abstracts Service
Revision	1
Date Modified	Oct 16, 2023 3:17:00 PM
16.1.1 Disclaimer	The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and configure of employees. This information is furnished without warranty and any use of the product on the configureance.

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