SAFETY DATA SHEET

fluoro**chem.**

1. Identification of Substance / Mixture

Product Identifier	
1.1.2 Product Name	tert-Butyl (S)-3-(4-bromo-1H-pyrazol-1-yl)pyrrolidine-1-carboxylate
1.1.2 Other Names	
1.1.1 Product Code	F867363
1.1.3 CAS	1357384-35-0
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 Hazarda Identification	
2. Hazards Identification	
2.1.1 Classification	Acute Tox. 4
	Skin Sens. 1
2.2.1 Signal Word	Warning
2.2.2 Pictograms	
2.2.3 Hazards	GHS07
2.2.3 Hazarus	H302 Harmful if swallowed.
2.2.4 Precautions	H317 May cause an allergic skin reaction.
2.2.5. Other Classification Herendo	 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. P301+P312.2 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P302+P352.1 IF ON SKIN: Wash with plenty of water. P313 Specific treatment. P330 Rinse mouth. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

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 tert-Butyl (S)-3-(4-bromo-1H-1357384-35-0 N/A H302 Acute Tox. 4 pyrazol-1-yl)pyrrolidine-1-H317 Skin Sens. 1 carboxylate 4. First Aid Measures 4.1.1 Eve contact In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing and seek 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. Call a poison centre or physician if you feel unwell. If breathing is irregular or stopped, administer artificial respiration. 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 Measures 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.

For personal protection see section 8. For disposal see section 13.

6.4.1 Referenced SDS Sections

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

7.2.1 Managing Storage Risks	Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.
7.2.2 Storage Controls	Keep container tightly closed in a cool area away from sunlight or heat sources.
7.2.3 Maintaining Integrity	Keep container tightly closed in a cool area away from sunlight or heat sources.
7.2.4 Other Advice	No other specific advice available.
7.3.1 Specific End Use(s)	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.
Io Toxicology data available for this product.
Io Toxicology data available for this product.
Any cause an allergic skin reaction.
Io Toxicology data available for this product.
Io Toxicology data available for this product.

11.1.7 Reproductive Toxicity

11.1.8 STOT-single Exposure

IATA UN Number 14.1.2 IATA Proper Shipping Name IATA Packing Group 14.1.4 IATA Hazard Clas 14.1.5 IATA Sub Class	Non Hazardous For Transport (tert-Butyl (4-bromo-1H-pyrazol pyrrolidine-1-carboxy	(S)-3- -1-yl) /late)	ADR Proper Shipping Name ADR Packing Group ADR Hazard Class ADR Sub Class	Non Hazardous For Transport (tert-Butyl (S)-3- (4-bromo-1H-pyrazol-1-yl) pyrrolidine-1-carboxylate)	IMDG Packing Group IMDG Packing Group IMDG Hazard Class IMDG Sub Class	(4-bromo-1H-pyrazol-1-yl) pyrrolidine-1-carboxylate)	
14.1.2 IATA Proper Shipping Name IATA Packing Group	Transport (tert-Butyl (4-bromo-1H-pyrazol pyrrolidine-1-carboxy	(S)-3- l-1-yl) /late)	Name ADR Packing Group	Transport (tert-Butyl (S)-3- (4-bromo-1H-pyrazol-1-yl)	Name IMDG Packing Group	Transport (tert-Butyl (S)-3 (4-bromo-1H-pyrazol-1-yl)	
14.1.2 IATA Proper	Transport (tert-Butyl (4-bromo-1H-pyrazol	(S)-3- I-1-yl)		Transport (tert-Butyl (S)-3- (4-bromo-1H-pyrazol-1-yl)		Transport (tert-Butyl (S)-3 (4-bromo-1H-pyrazol-1-yl)	
ATA UN Number			ADD Drener Chinning		IMDG Proper Shipping	Non Hazardous For	
			ADR UN Number		IMDG UN Number		
14. Transport Inf	ormation						
			Ensure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be ecyclable if not contaminated.				
13.1.1 Disposal Operations Ensu			Ensure product is disposed of by licensed waste carriers.				
13. Disposal Co	nsiderations						
12.6.1 Other Adverse Effects No E		No Ec	No Ecological data available for this product.				
2.7.1 Endocrine Disrup	ting Properties	No Ec	No Ecological data available for this product.				
12.5.1 Results of PBT and vPvB assessment No		No Ec	No Ecological data available for this product.				
		No Ec	No Ecological data available for this product.				
12.3.1 Bio-Accumulative	č		No Ecological data available for this product.				
•			No Ecological data available for this product.				
12.1.1 Toxicity		No Ec	ological data available for	this product			
12. Ecological Ir	formation						
11.2.1 Additional Toxico			kicology data available for	this product.			
	•		kicology data available for	this product.			
1.1.10 Aspiration Haza	•		kicology data available for	•			

No Toxicology data available for this product.

No Toxicology data available for this product.

15. Regulatory Information

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		
	safety of employees. This information is furnished without warranty and any use of the product not in conformance		

with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user. This SDS adheres to Regulation (EC) No 1907/2006, and as of 13th April 2023, also conforms to EU Regulation 2020/878.