Safety Data Sheet

fluoro**chem**

1. Identification of Substance / Mixture

Product Identifier

Product Name	(R)-1-(Trifluoromethyl)ethylisocyanate		
Other Names			
Product Code	097798		
CAS			
MDL	MFCD28126796		
EINECS	N/A		
REACH Registration Number			
Relevant Uses	Research and Development		
Uses Advised Against	No uses advised against.		

Supplier Details

Company	Fluorochem Limited
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Telephone	+44(0)1457 860111
Email	sds@fluorochem.co.uk
Emergency Telephone	+44(0)1457 860111 (08:00 - 17:30)

2. Hazards Identification

Classification Signal Word Pictograms	Acute Tox. 4 Warning
Hazards	H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled.
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. P271 Use only outdoors or in a well-ventilated area. P280 Wear face protection. P301+P312 IF SWALLOWED: Call a doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of water. P312 Call a POISON CENTER/doctor if you feel unwell. P321 Specific treatment. P330 Rinse mouth. P340 Remove person to fresh air and keep comfortable for breathing. P362+P364 Take off contaminated clothing and wash it before reuse.

Other Classification Hazards

3. Composition of Ingredients				
Name	CAS	Einecs	Composition	Hazards
(R)-1-(Trifluoromethyl)ethylisocyanate		N/A	<= 100%	H302 Acute Tox. 4 H312 Acute Tox. 4 H332 Acute Tox. 4
4. First Aid Measures				
Eye contact	Where	e Diphoterine is not available, r	inse eyes with copious amounts of v	water for at least 20 minutes.
Ingestion		llowed rinse the mouth with plo vsician if you feel unwell.	enty of water (only if the person is c	conscious) and contact a poison centre
Inhalation			o comfortable for breathing. Call a p opped, administer artificial respiratio	oison centre or physician if you feel on.
Skin Contact			iately with plenty of water and soap e or physician if you feel unwell.	b. Remove contaminated clothing
	No ad	ditional advice.		

General Advice	
Most Important Symptoms and Effects	No known symptoms or effects.
Immediate First Aid Measures	No additional first aid measures required.
5. Fire Fighting Measures	
Suitable Fire Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Fire Extinguishing Media	No known unsuitable media.
Special Hazards	Thermal decomposition can lead to release of irritating gases and vapours.
Advice for Fire Fighters	As in any fire, wear self-contained breathing apparatus and full protective gear.
6. Accidental Release Measures	
Personal Precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak.
Environmental Precautions	Do not let product enter drains or waterways. Avoid discharge into the environment.
Containment - Methods and Materials	Spill Response should only be carried out by trained or qualified personnel.
Referenced SDS Sections	For personal protection see section 8. For disposal see section 13.
7. Handling and Storage	
Personal Precautions	

Safe Handling	Wear appropriate personal protective equipment. Use only under a chemical fume hood ensuring adequate ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. For precautions see section 2.2.
Protection Against Explosion and Fire	Where possible, use anti static and spark proof equipment when handling.
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

Managing Storage Risks	Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.
Storage Controls	No special requirements
Maintaining Integrity	Keep container tightly closed in a cool area away from sunlight or heat sources.
Other Advice	No other specific advice available.
Specific End Use(s)	No specific end uses are advised. The products supplied are for research purposes only.

8. Exposure Controls / Personal Protection

Control Parameters

Country	T	Long Term (ppm)	Long Term (mgm3)	Short Term (ppm)	Short Term (mgm3)	Ceiling (ppm)	Ceiling (mgm3)	Other Unit	Remarks
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 a close to the workstation location.						
Face Protect	ion		Wear tigh	tly fitting safety	/ goggles which a	dhere to Europea	an standard EN 10	66. Ensure eye	bath is to hand.
Hand Proect	ion		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 us in accordance with applicable laws and good laboratory practices. Wash and dry hands.						
Skin Protecti	ion		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.						
Respiratory	Protection		Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is nee under normal use conditions.			uipment is needed			
Hygiene Prot	tection		Ensure hair or skin particles cannot enter the chemical container.						
Environment Exposure Controls			Avoid dis	Avoid discharge into the environment, see section 6.2.					

9. Physical and Chemical Properties

State

Liquid

Odour	No data available.
Odour Threshold	No data available.
рН	No data available.
Melting Point / Freezing Point	No data available.
Initial Boiling Point	No data available.
Boiling Range	No data available.
Flash Point	No data available.
Evaporation Rate	No data available.
Flammability	No data available.
Upper / Lower Flammability or Explosion Limits	No data available.
Vapour Pressure	No data available.
Vapour Density	No data available.
Relative Density	No data available.
Solubility	No data available.
Partion Coefficient	No data available.
Auto Ignition Temperature	No data available.
Decomposition Temperature	No data available.
Viscosity	No data available.
Explosive Properties	No data available.
Oxidising Properties	No data available.
Other information	No additional information available

10. Stability and Reactivity

Reactivity	No known reactivity, based on information available.
Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal storage conditions.
Conditions To Avoid	Excess heat. Exposure to moisture.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	No Data Available.

11. Toxicology Information

Acute Toxicity	No Toxicology data available for this product.
Skin Corrosion / Irritation	No Toxicology data available for this product.
Serious Eye Damage / Irritation	No Toxicology data available for this product.
Respiratory or Skin Sensitisation	No Toxicology data available for this product.
Germ Cell Mutagenicity	No Toxicology data available for this product.
Carcinogencity	No Toxicology data available for this product.
Reproductive Toxicity	No Toxicology data available for this product.
STOT-single Exposure	No Toxicology data available for this product.
STOT-repeated Exposure	No Toxicology data available for this product.
Aspiration Hazard	No Toxicology data available for this product.
Additional Toxicology Information	No Toxicology data available for this product.

for this product. for this product.

12. Ecological Information

Toxicity	No Ecological data available
Persistence and Degradability	No Ecological data available
Bio-Accumulative Potential	No Ecological data available
Mobility in Soil	No Ecological data available
Results of PBT and vPvB assessment	No Ecological data available
Endocrine Disrupting Properties	No Ecological data available
Other Adverse Effects	No Ecological data available

Disposal Operations

Ensure product is disposed of by licensed waste carriers.

recyclable if not contaminated.

Ensure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be

Disposal of Packaging

14. Transport Information

IATA UN Number	2206	ADR UN Number	2206	IMDG UN Number	2206
IATA Proper Shipping Name	ISOCYANATE SOLUTION, TOXIC, N.O.S.((R)-1- (Trifluoromethyl)ethylisocyanate)	ADR Proper ⁾ Shipping Name	ISOCYANATE SOLUTION, TOXIC, N.O.S.((R)-1- (Trifluoromethyl)ethylisocyanate)	IMDG Proper ⁾ Shipping Name	ISOCYANATE SOLUTION, TOXIC, N.O.S.((R)-1- (Trifluoromethyl)ethylisocyanate)
IATA Packing Group	III	ADR Packing Group	III	IMDG Packing Group	III
IATA Hazard Class	6.1	ADR Hazard Class	6.1	IMDG Hazard Class	6.1
IATA Sub Class		ADR Sub Class		IMDG Sub Class	-
				IMDG Special Provisions	
				IMDG IBS Instructions	
				IMDG IBC Instructions	IBC03
				IMDG Tank Instructions	Τ7
				IMDG Tank Provisions	ТР1, ТР13, ТР28

15. Regulatory Information

Regulatory Information

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

process, is the responsibility of the user. This SDS adheres to Regulation (EC) No 1907/2006.

Chemical Safety Assessment

No Chemical Safety Assessment available for this product.

16. Other Information

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	1.292
Date Modified	03/11/2022
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