Safety Data Sheet

fluoro**chem**

1. Identification of Substance / Mixture

Product Identifier

Product Name	2,2-Bis(trifluoromethyl)propionyl fluoride	
Other Names		
Product Code	008506	
CAS	1735-87-1	
MDL	MFCD00236084	
EINECS	N/A	
REACH Registration Number		
Relevant Uses	Research and Development	
Uses Advised Against	No uses advised against.	

Supplier Details

Company	Fluorochem Limited
Address	Unit 14, Graphite Way, Hadfield. SK13 1QH. UK
Telephone	+44(0)1457 860111
Email	sds@fluorochem.co.uk
Emergency Telephone	+44(0)1457 860111 (08:00 - 17:30)

2. Hazards Identification

Classification	Skin Corr. 1B
Signal Word	Danger
Pictograms	GHS05
Hazards	H314 Causes severe skin burns and eye damage.
Precautions	 P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment. P363 Wash contaminated clothing before reuse. P405 Store locked up.

Other Classification Hazards

3. Composition of Ingredients

SUBSTANCE				
Name	CAS	Einecs	Composition	Hazards
2,2-Bis(trifluoromethyl)propionyl fluoride	1735-87-1	N/A	<= 100%	H314 Skin Corr. 1B
4. First Aid Measures				
Eye contact	apart. Protect	,	, , , ,	ater for 10 to 15 minutes holding eyelids sy to do. Continue rinsing and seek
Ingestion		lf swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting.		
Inhalation		Remove person to fresh air and keep comfortable for breathing. Immediately seek medical attention. If breathing is irregular or stopped, administer artificial respiration.		
Skin Contact		After contact with skin or hair, wash immediately with plenty of water and soap. Remove contaminated clothing immediately. Immediately seek medical attention.		
General Advice	No additional	advice.		
	Severe burns	may occur.		

Most Important Symptoms and Effects Immediate First Aid Measures

No additional first aid measures required.

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		Long Term (ppm)	Long Term (mgm3)	Short Term (ppm)	Short Term (mgm3)	Ceiling (ppm)	Ceiling (mgm3)	Other Unit	Remarks
Engineering	Measures		explosion						areas. Use safety showers are
Face Protect	tion		Wear tigh	ntly fitting safety	y goggles which a	dhere to Europea	an standard EN 16	6. 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 Protect	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 needed under normal use conditions.			uipment is needed			
Hygiene Pro	tection		Ensure ha	air or skin partic	les cannot enter t	he chemical con	tainer.		
F	t Exposure Cont	role	Avoid discharge into the environment, see section 6.2.						

9. Physical and Chemical Properties

State	Liquid
Appearance	Liquid
Odour	Pungent

Odour Threshold	No data available.
рН	No data available.
Melting Point / Freezing Point	No data available.
Initial Boiling Point	No data available.
Boiling Range	47°C to 49°C
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	1.473g/cm3
Solubility	in Acetone, Ether Note: Insoluble in water
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	Strong corrosive effect on skin and mucous membranes.	
Serious Eye Damage / Irritation	Strong corrosive effect.	
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.	

12. Ecological Information

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

Disposal Operations

Disposal of Packaging

14. Transport Information

Ensure product is disposed of by licensed waste carriers.

Ensure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be recyclable if not contaminated.

IATA UN Number	3265	ADR UN Number	3265	IMDG UN Number	3265	
IATA Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(2,2- Bis(trifluoromethyl)propionyl fluoride)	ADR Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(2,2- Bis(trifluoromethyl)propionyl fluoride)	IMDG Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(2,2- Bis(trifluoromethyl)propiony fluoride)	
IATA Packing Group	II	ADR Packing Group	II	IMDG Packing Group	II	
IATA Hazard Class	8	ADR Hazard Class	8	IMDG Hazard Class	8	
IATA Sub Class		ADR Sub Class		IMDG Sub Class	-	
				IMDG Special Provisions		
				IMDG IBS Instructions		
				IMDG IBC Instructions	IBC02	
				IMDG Tank Instructions	Т11	
				IMDG Tank Provisions	TP2, TP27	
15. Regulator	y Information					
Regulatory Infor	mation A	As far as Fluorochem is aware, there are no further regulations controlling this product.				
Chemical Safety	Assessment N	No Chemical Safety Assessment available for this product.				
16. Other Info	ormation					
Information Not Sections	Covered in Other Ri (F IM IA A G G	Distribution of the Interr D:Reglement Interri- Regulations concern IDG: International A TA: International A TA-DGR: Dangerou- viation Organization AO-TI: Technical In:	structions by the ICAO nized System of Classification and	ods by road) es merchandises dang Dangerous Goods by R Is ational Air Transport A	ereuses par chemin de fer tail) ssociation ICAO:International Civi	

CAS:Chemical Abstracts Service

1.417

03/11/2022

Revision

Date Modified

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.