Safety Data Sheet

fluorochem

1. Identification of Substance / Mixture

Product Identifier

Product Name 2-Bromoethyl trifluoromethanesulfonate

Other Names

238810 **Product Code** 103935-47-3 CAS MFCD11656439 MDL

N/A **EINECS**

REACH Registration Number

Research and Development **Relevant Uses** No uses advised against. **Uses Advised Against**

Supplier Details

Fluorochem Limited Company

Unit 14, Graphite Way, Hadfield. SK13 1QH. UK **Address**

+44(0)1457 860111 Telephone sds@fluorochem.co.uk **Email**

+44(0)1457 860111 (08:00 - 17:30) **Emergency Telephone**

2. Hazards Identification

Acute Tox. 3 Classification Skin Corr. 1B

Signal Word Danger

Pictograms

GHS05

H301 Toxic if swallowed. Hazards

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

P260 Do not breathe dust/fume/gas/mist/vapours/spray. **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+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water.

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.

P311 Call a POISON CENTER/doctor.

P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment. P330 Rinse mouth.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Other Classification Hazards

trifluoromethanesulfonate

3. Composition of Ingredients

SUBSTANCE

CAS **Einecs** Composition Name Hazards 2-Bromoethyl 103935-47-3 N/A <= 100%

H301 Acute Tox. 3 H311 Acute Tox. 3 H314 Skin Corr. 1B H331 Acute Tox. 3

4. First Aid Measures

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids **Eve contact**

apart. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing and seek

immediate medical attention.

If swallowed rinse the mouth with plenty of water (only if the person is conscious) and immediately contact a Ingestion

poison centre or physician.

Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician. If Inhalation

breathing is irregular or stopped, administer artificial respiration.

After contact with skin or hair, wash immediately with plenty of water and soap. Remove contaminated clothing Skin Contact

immediately. Immediately seek medical attention.

No additional advice. **General Advice**

Most Important Symptoms and

Effects

Severe burns may occur.

No additional first aid measures required. Immediate First Aid Measures

5. Fire Fighting Measures

Carbon dioxide, alcohol resistant foam or dry chemical powder. Suitable Fire Extinguishing Media

No known unsuitable media. **Unsuitable Fire Extinguishing Media**

In combustion toxic fumes may form. **Special Hazards**

As in any fire, wear self-contained breathing apparatus and full protective gear. **Advice for Fire Fighters**

6. Accidental Release Measures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure **Personal Precautions**

adequate ventilation. Keep personnel away from spill/leak.

Do not let product enter drains or waterways. Avoid discharge into the environment. **Environmental Precautions**

Spill Response should only be carried out by trained or qualified personnel. **Containment - Methods and**

Materials **Referenced SDS Sections**

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

7. Handling and Storage

Personal Precautions

Wear appropriate personal protective equipment. Use only under a chemical fume hood ensuring adequate Safe Handling

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

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

Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place. **Managing Storage Risks**

No special requirements Storage Controls

Keep container tightly closed in a cool area away from sunlight or heat sources. **Maintaining Integrity**

No other specific advice available. Other Advice

No specific end uses are advised. The products supplied are for research purposes only. Specific End Use(s)

8. Exposure Controls / Personal Protection

Control Parameters

Country	Info	Long	Long	Short	Short	Ceiling	Ceiling	Other	Remarks
		Term	Term	Term	Term	(ppm)	(mgm3)	Unit	
		(ppm)	(mgm3)	(ppm)	(mgm3)				

Use only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Use **Engineering Measures** explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are

close to the workstation location.

Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand. **Face Protection**

Handle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EU **Hand Proection** 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.

Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1 Skin Protection 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.

Ensure hair or skin particles cannot enter the chemical container. **Hygiene Protection**

Avoid discharge into the environment, see section 6.2. **Environment Exposure Controls**

9. Physical and Chemical Properties

Liquid State Liquid **Appearance**

No data available. Odour No data available. **Odour Threshold** No data available. рΗ 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.

No additional information available Other information

10. Stability and Reactivity

Oxidising Properties

No known reactivity, based on information available. Reactivity Stable under recommended storage conditions. Stability

None under normal storage conditions. **Possibility of Hazardous Reactions** Excess heat. Exposure to moisture. **Conditions To Avoid**

Strong oxidising agents. **Incompatible Materials** No Data Available. **Hazardous Decomposition Products**

11. Toxicology Information

No Toxicology data available for this product. **Acute Toxicity**

Strong corrosive effect on skin and mucous membranes. Skin Corrosion / Irritation

Strong corrosive effect. Serious Eye Damage / Irritation Toxic if swallowed. Respiratory or Skin Sensitisation Toxic if inhaled.

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**

12. Ecological Information

No Ecological data available for this product.

Toxicity

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.

No Ecological data available for this product.

Other Adverse Effects

No Ecological data available for this product.

13. Disposal Considerations

Disposal Operations Ensure product is disposed of by licensed waste carriers.

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

recyclable if not contaminated.

14. Transport Information

IATA UN Number	2927	ADR UN Number	2927	IMDG UN Number	2927
IATA Proper Shipping Name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.(2- Bromoethyl trifluoromethanesulfonate)	ADR Proper Shipping Name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.(2- Bromoethyl trifluoromethanesulfonate)	IMDG Proper Shipping Name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.(2- Bromoethyl trifluoromethanesulfonate)
IATA Packing Group	II	ADR Packing Group	II	IMDG Packing Group	II
IATA Hazard Class	6.1	ADR Hazard Class	6.1	IMDG Hazard Class	6.1
IATA Sub Class	8	ADR Sub Class	8	IMDG Sub Class	8
				IMDG Special Provisions	
				IMDG IBS Instructions	
				IMDG IBC Instructions	IBC02
				IMDG Tank Instructions	T11
				IMDG Tank Provisions	TP2, TP27

15. Regulatory Information

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

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

16. Other Information

Revision

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

1.289

Date Modified 03/11/2022

DisclaimerThe 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.