# SAFETY DATA SHEET

# fluoro**chem.**

### 1. Identification of Substance / Mixture

#### **Product Identifier**

1.1.2 Product Name	1-(2-Methoxyethyl)-2-thiourea
1.1.2 Other Names	
1.1.1 Product Code	F018788
1.1.3 CAS	102353-42-4
1.1.4 MDL	MFCD00060469
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

2.2.1 Signal Word

2.2.2 Pictograms

2.2.3 Hazards

Eye Irrit. 2A Skin Irrit. 2 STOT SE 3

Warning



H315 Causes skin irritation.H319 Causes serious eye irritation.H335 May cause respiratory irritation.

#### 2.2.4 Precautions

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	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 Wash hands thoroughly after handling.
	<b>P270</b> Do not eat, drink or smoke when using this product.
	<b>P271</b> Use only outdoors or in a well-ventilated area.
	P280.4 Wear protective gloves/protective clothing and eye/face protection.
	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P302+P352.2 IF ON SKIN: Wash with plenty of water and soap.
	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.
	P308+P313 IF exposed or concerned: Get medical advice/attention.
	P321 Specific treatment.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P405 Store locked up.
	P501.3 Dispose of contents/container to hazardous waste disposal.
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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
1-(2-Methoxyethyl)-2-thiourea	102353-42-4	N/A		H315 Skin Irrit. 2 H319 Eye Irrit. 2A H335 STOT SE 3

## 4. First Aid Measures

4.1.1 Eye 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	Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical advice.
4.1.3 Inhalation	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory problems 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 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.
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.

Conditions for Safe Storage and Incompatabilities   7.2.1 Managing Storage Risks Keep container tightly closed and upright. Store in a cool, dry ar   7.2.2 Storage Controls Keep container tightly closed in a cool area away from sunlight.	nd well-ventilated place.	
	nd 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.	No other specific advice available.	
7.3.1 Specific End Use(s) No specific end uses are advised. The products supplied are for	r research purposes only.	

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	Solid
9.1.2 Appearance	Solid
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	74 to 76°C
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 10.2.1 Stability No known reactivity, based on information available. 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 Toxicology data available for this product. 11.1.2 Skin Corrosion / Irritation No Toxicology data available for this product. 11.1.3 Serious Eye Damage / Irritation No Toxicology data available for this product. No Toxicology data available for this product. 11.1.4 Respiratory or Skin Sensitisation 11.1.5 Germ Cell Mutagenicity No Toxicology data available for this product. 11.1.6 Carcinogenicity No Toxicology data available for this product. 11.1.7 Reproductive Toxicity No Toxicology data available for this product. 11.1.8 STOT-single Exposure No Toxicology data available for this product. 11.1.9 STOT-repeated Exposure No Toxicology data available for this product. 11.1.10 Aspiration Hazard No Toxicology data available for this product. 11.2.1 Additional Toxicology Information No Toxicology data available for this product. 12. Ecological Information

12.1.1 Toxicity	No Ecological data available for this product.
12.2.1 Persistence and Degradability	No Ecological data available for this product.
12.3.1 Bio-Accumulative 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 and vPvB assessment	No Ecological data available for this product.
12.7.1 Endocrine Disrupting Properties	Avoid release to the environment.
12.6.1 Other Adverse Effects	No Ecological data available for this product.

#### 13. Disposal Considerations

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.

#### 14. Transport Information

13.1.1 Disposal Operations

13.1.2 Disposal of Packaging

IATA UN Number		ADR UN Number		IMDG UN Number	
14.1.2 IATA Proper Shipping Name	(1-(2-Methoxyethyl)-2- thiourea)	ADR Proper Shipping Name	Non Hazardous For Transport (1-(2- Methoxyethyl)-2-thiourea)	IMDG Proper Shipping Name	(1-(2-Methoxyethyl)-2- thiourea)
IATA Packing Group		ADR Packing Group		IMDG Packing Group	
14.1.4 IATA Hazard Class		ADR Hazard Class		IMDG Hazard Class	
14.1.5 IATA Sub Class		ADR Sub Class		IMDG Sub Class	

#### 15. Regulatory Information

15.2.1 Chemical Safety Assessment

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

No Chemical Safety Assessment is available for this product.

#### 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 12, 2023 12:12:00 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.