SAFETY DATA SHEET

fluorochem.

1. Identification of Substance / Mixture

Product Identifier

1.1.2 Product Name Pyridine >99.0%

1.1.2 Other Names

1.1.1 Product Code F995154 **1.1.3 CAS** 110-86-1

1.1.4 MDL MFCD00011732 **1.1.5 EINECS** 203-809-9

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 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

1.3.3 Telephone

Acute Tox. 4 Eye Irrit. 2A Flam. Liq. 2 Skin Irrit. 2

Danger

2.2.1 Signal Word

2.2.2 Pictograms

GHS02



2.2.3 Hazards

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

2.2.4 Precautions

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241.1 Use explosion-proof equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

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.

P280.4 Wear protective gloves/protective clothing and eye/face protection.

P301+P312.1 IF SWALLOWED: Call a doctor if you feel unwell.

P302+P352.1 IF ON SKIN: Wash with plenty of water.

P303+P361+P353.1 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment. P330 Rinse mouth.

P337+P313 If eye irritation persists: Get medical advice/attention. P340 Remove person to fresh air and keep comfortable for breathing.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378.1 In case of fire: Use dry sand to extinguish. P403+P235 Store in a well-ventilated place. Keep cool.

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

 Pyridine >99.0%
 110-86-1
 203-809-9
 H225 Flam. Liq. 2 H302 Acute Tox. 4 H302 Acute Tox. 4 H302 Acute Tox. 4 H315 Skin Irrit. 2 H319 Sye Irrit. 2A

4. First Aid Measures

4.1.1 Eye contactWhere Diphoterine is not available, rinse eyes with copious amounts of water for at least 20 minutes.

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 Where Diphoterine is not available, rinse skin with copious amounts of water for at least 20 minutes.

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. Ensure Hexafluorine washing solution is to hand. Avoid dust formation. Avoid

 $breathing\ vapours,\ mist\ or\ gas.\ Ensure\ adequate\ ventilation.\ Keep\ personnel\ away\ from\ spill/leak.$

6.2.1 Environmental PrecautionsPrevent 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.

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 airticht container. Permany all sources of innition. Dispose of appropriately according to local regulations.

airtight container. Remove all sources of ignition. Dispose of appropriately according to local regulations.

6.4.1 Referenced SDS Sections For personal protection see section 8. For disposal see section 13.

7. Handling and Storage

H332 Acute Tox. 4

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.

No specific end uses are advised. The products supplied are for research purposes only. 7.3.1 Specific End Use(s)

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. Ensure

Hexafluorine washing solution is close to workstation. 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 Hexafluorine eye wash is to

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.

Ensure Hexafluorine washing solution is to hand. 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

9.1.2 Appearance No data available. 9.1.3 Odour 9.1.4 Odour Threshold No data available. 9.1.5 pH 8.81 at 20°C 9.1.6 Melting Point / Freezing Point -41 6°C 9.1.7 Initial Boiling Point 115.2°C

9.1.8 Boiling Range No data available.

9.1.9 Flash Point 20°C

9.1.10 Evaporation Rate No data available. 9.1.11 Flammability No data available. 9.1.12 Upper / Lower Flammability or No data available.

Explosion Limits

9.1.13 Vapour Pressure 26.7 hPa at 20°C 9.1.14 Vapour Density 2.73 a/cm3 9.1.15 Relative Density 0.982 g/cm3

9.1.16 Solubility 1000 g/L at 20°C in Water

9.1.17 Partition Coefficient 0.64 at 20°C 9.1.18 Auto Ignition Temperature 900°C

9.1.19 Decomposition Temperature No data available. 9.1.20 Viscosity 0.879 mPa s at 20°C 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 Acids

10.6.1 Hazardous Decomposition Products In combustion emits toxic furnes of carbon dioxide / carbon monoxide. In combustion emits toxic furnes of hydrogen

cyanide. In combustion nitrogen oxides (NOx) may form.

11. Toxicology Information

11.1.1 Acute Toxicity
Oral LD50, Rat, 800 - 1600mg/kg Inhalation LC50, Rat (male), 15852mg/m3/4 h Dermal LD50, Rabbit, 1000 -

2000mg/kg Intravenous LD50, Rat, 360mg/kg

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.
 11.1.4 Respiratory or Skin Sensitisation
 No Toxicology data available for this product.
 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.

11.1.8 STOT-single ExposureNo Toxicology data available for this product.11.1.9 STOT-repeated ExposureNo Toxicology data available for this product.11.1.10 Aspiration HazardNo 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 DegradabilityNo Ecological data available for this product.12.3.1 Bio-Accumulative PotentialNo Ecological data available for this product.

12.4.1 Mobility in Soil Log Pow: 0.64

12.5.1 Results of PBT and vPvB assessment
No Ecological data available for this product.

12.7.1 Endocrine Disrupting Properties
No Ecological data available for this product.

12.6.1 Other Adverse Effects

No Ecological data available for this product.

13. Disposal Considerations

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

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

recyclable if not contaminated.

14. Transport Information

 IATA UN Number
 1282
 ADR UN Number
 1282
 IMDG UN Number
 1282

14.1.2 IATA Proper Pyridine (Pyridine >99.0%) **ADR Proper Shipping** Pyridine (Pyridine >99.0%) **IMDG Proper Shipping** Pyridine (Pyridine >99.0%)

Shipping Name
Name
Name

IATA Packing Group Ш **ADR Packing Group** Ш **IMDG Packing Group** Ш 14.1.4 IATA Hazard Class **ADR Hazard Class IMDG Hazard Class** 3 3 3 14.1.5 IATA Sub Class - None -**ADR Sub Class** - None -**IMDG Sub Class** - None -

15. Regulatory Information

15.1.1 Regulatory Information The Syria (Sanctions) (EU Exit) Regulations 2019

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

Date Modified

16.1.1 Disclaimer

Jul 4, 2023 2:11:00 PM

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.