# **Safety Data Sheet**

# fluorochem

## 1. Identification of Substance / Mixture

#### **Product Identifier**

Product Name 2,2,3-trimethylpyrrolidine

**Other Names** 

 Product Code
 313189

 CAS
 14123-52-5

 MDL
 MFCD16737708

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 Irrit. 2

Eye Irrit. 2A STOT SE 3

Signal Word Warning

Pictograms



GHS07

Hazards H315 Causes skin irritation.

**H319** Causes serious eye irritation. **H335** May cause respiratory irritation.

**Precautions** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

**P264** Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

**P280** Wear face protection.

P302+P352 IF ON SKIN: Wash with plenty of 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. **P312** Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment.

P337+P313 If eye irritation persists: Get medical advice/attention.
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.

#### Other Classification Hazards

## 3. Composition of Ingredients

**SUBSTANCE** 

NameCASEinecsCompositionHazards2,2,3-trimethylpyrrolidine14123-52-5N/A<= 100%</td>H315 Skin Irrit. 2H319 Eve Irrit. 2A

H319 Eye Irrit. 2A H335 STOT SE 3

### 4. First Aid Measures

**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.

Ingestion Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical advice.

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory problems seek

Inhalation immediate medical attention.

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

immediately. In case of skin reactions, consult a physician.

**General Advice** No additional advice

**Most Important Symptoms and** 

**Effects** 

No known symptoms or effects.

No additional first aid measures required. Immediate First Aid Measures

## 5. Fire Fighting Measures

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **Suitable Fire Extinguishing Media** 

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

Thermal decomposition can lead to release of irritating gases and vapours. **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

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

## 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.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not General Occupational Hygiene 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.

Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed **Respiratory Protection** 

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.

На 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

**Upper / Lower Flammability or** 

**Explosion Limits** 

No data available.

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 additional information available Other information

## 10. Stability and Reactivity

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** 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** 

### 12. Ecological Information

No Ecological data available for this product. **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** 

## 13. Disposal Considerations

**Disposal Operations** 

Ensure product is disposed of by licensed waste carriers.

**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

This product is classified as non-hazardous for transport.

### 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

Information Not Covered in Other Sections

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer

concerning the International Carriage of Dangerous Goods by road)

(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

1.285

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