## SAFETY DATA SHEET

# fluorochem.

## 1. Identification of Substance / Mixture

**Product Identifier** 

1.1.2 Product Name (1S,2S)-N1,N2-Dimethyl-1,2-bis(4-(trifluoromethyl)phenyl)ethane-1,2-diamine

1.1.2 Other Names

1.1.1 Product Code F624332 1.1.3 CAS 2640520-10-9

1.1.4 MDL

**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

Fluorochem Ltd 1.3.1 Company

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

Aquatic Chronic 1

2.2.1 Signal Word

Warning

2.2.2 Pictograms



GHS09

2.2.3 Hazards

H410 Very toxic to aquatic life with long lasting effects.

2.2.4 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. P273 Avoid release to the environment.

P280.4 Wear protective gloves/protective clothing and eye/face protection. P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment.

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

P391 Collect spillage. P405 Store locked up.

P501.3 Dispose of contents/container to hazardous waste disposal.

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

(1S,2S)-N1,N2-Dimethyl-1,2-bis 2640520-10-9 N/A H410 Aquatic Chronic 1

(4-(trifluoromethyl)phenyl) ethane-1,2-diamine

### 4. First Aid Measures

4.1.1 Eye contact Where 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. 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** For personal protection see section 8. For disposal see section 13.

### 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.

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

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

## 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. 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 No data available 9.1.2 Appearance No data available 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 No data available 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 No data available.

**Explosion Limits** 

 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 ReactivityNo known Reactivity, based on information available.10.2.1 StabilityStable 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. 11.1.4 Respiratory or Skin Sensitisation No Toxicology data available for this product. 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. No Ecological data available for this product. 12.2.1 Persistence and Degradability 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 Very toxic to aquatic life with long lasting effects.

## 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 ADR UN Number IMDG UN Number

14.1.2 IATA Proper Non Hazardous For Non Hazardous For ADR Proper Shipping **IMDG Proper Shipping Shipping Name** Transport ((1S,2S)-N1,N2-Name Transport ((1S,2S)-N1,N2-Name Dimethyl-1,2-bis(4-Dimethyl-1,2-bis(4-

(trifluoromethyl)phenyl) (trifluoromethyl)phenyl) ethane-1,2-diamine) ethane-1,2-diamine) ADR Packing Group

IATA 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** 

### Regulatory Information

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

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 ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road) Sections

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** Oct 16, 2023 3:17:00 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.

Non Hazardous For

Dimethyl-1,2-bis(4-

(trifluoromethyl)phenyl)

ethane-1,2-diamine)

Transport ((1S,2S)-N1,N2-