Safety Data Sheet

fluorochem.

1. Identification of the substance/mixture

1.1 Product identification

Product name 4-amino-1-methylpyrrolidin-2-one

Other names

Product code F309344 **CAS** 933744-16-2 **MDL** MFCD09971175

EINECS N/A

REACH Registration

number

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant uses For research and development purposes.

Uses advised against No uses advised.

1.3 Safety Data Sheet supplier details

Company Fluorochem Ltd

Address Unit 14, Graphite Way

Hadfield

Glossop Derbys. SK13 1QH

United Kingdom

+44 1457 860111 **Telephone**

Email sds@fluorochem.co.uk

1.4 Emergency Telephone

Emergency Telephone +44 20 3807 3798 (Poison Information)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification H302 Acute Tox. 4

H317 Skin Sens. 1

2.2 Label Elements

Signal Word

Pictograms

Precautions

Warning

GHS07

Hazards H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

P301+P312 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell.

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

belore reuse.

P272 Contaminated work clothing should not be allowed out of the workplace.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see Section 4 on this SDS).

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing and

eye/face protection.

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

P264 Wash hands thoroughly after handling.

P330 Rinse mouth.

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

2.3 Other Hazards

Other Classification Hazards

3. Composition

3.1 SUBSTANCE

Name CAS Einecs Composition Hazards

4-amino-1-methylpyrro-

lidin-2-one

933744-16-2 N/A

3.2 MIXTURE

Not applicable. Product is a substance.

4. First Aid Measures

4.1 Description of 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 medi-

cal attention.

Ingestion If swallowed rinse the mouth with plenty of water (only if

the person is conscious) and contact a poison centre or

physician if you feel unwell.

Inhalation Remove person to fresh air and keep comfortable for

breathing. Call a poison centre or physician if you feel unwell. If breathing is irregular or stopped, administer artifi-

cial respiration.

Skin ContactAfter contact with skin, wash immediately with plenty of

water and soap. Remove contaminated clothing immedi-

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

General Advice No additional advice.

4.2 Most Important Symptoms and Effects

Most Important Symptoms and Effects

INO I

No known symptoms or effects.

4.3 Indication of any urgent medical attention and special treatments needed

Immediate First Aid Measures No special immediate treatment required.

5. Fire Fighting Measures

5.1 Extinguishing Media

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

powder., Use water to extinguish fire.

Unsuitable Fire Extinguishing Media No known unsuitable media.

5.2 Special hazards arising from the substance or mixture

Special Hazards Thermal decomposition can lead to release of irritating

gases and vapours.

5.3 Recommendations for firefighting personnel

Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus

and full protective gear.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment. Avoid dust formation.

Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Keep personnel away from spill/leak.

6.2 Environmental Precautions

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 Containment and cleaning methods and materials

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 References to other sections

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

section 13.

7. Handling and Storage

7.1 Precautions for safe handling

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.

Protection Against Explosion and Fire 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.

7.2 Conditions for Safe Storage and Incompatibilities

Managing Storage Risks Keep container tightly closed and upright. Store in a cool,

dry and well-ventilated place.

Storage Controls No special requirements.

Maintaining Integrity Keep container tightly closed in a cool area away from

sunlight or heat sources.

Other Advice No other specific advice available.

7.3 Specific End Use(s)

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 Control Parameters

Control Parameters No data available.

8.2 Exposure Controls

Engineering MeasuresUse only under a chemical fume hood ensuring adequate

ventilation, especially in confined areas. Use explosionproof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the

workstation location.

Face Protection Wear tightly fitting safety goggles which adhere to

European standard EN 166. Ensure eye bath is to hand.

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.

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 danger-

ous substance at the specific workplace.

Product should be handled in a fume cupboard with ade-**Respiratory Protection**

quate extraction. No respiratory equipment is needed un-

der normal use conditions.

Ensure hair or skin particles cannot enter the chemical **Hygiene Measures**

container.

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

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) State

b) Colour No data available. c) Odour No data available. No data available. d) Melting Point / Freezing Point e) Initial Boiling point or Boiling range No data available.

f) Flammability No data available. No data available.

g) Upper / Lower Flammability or

Explosion Limits

No data available. h) Flash Point i) Auto Ignition Temperature No data available j) Decomposition Temperature No data available. k) pH No data available. No data available. I) Viscosity m) Solubility No data available. n) Partition Coefficient No data available. No data available. o) Vapour Pressure

p) Relative Density No data available.

No data available. q) Vapour Density

Solid r) Appearance

9.2 Other Safety Information

Other Information No data available.

10. Stability and Reactivity

10.1 Reactivity

Reactivity No known reactivity, based on information available.

10.2 Stability

Stability Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal storage conditions.

10.4 Conditions to Avoid

Conditions to Avoid Heat, sparks, open flames, sources of ignition. Exposure

to moisture.

10.5 Incompatible Materials

Incompatible Materials Strong oxidizing agents.

10.6 Hazardous Decomposition Products

Hazardous Decomposition Products No data available.

11. Toxicology Information

11.1 Information on Hazard Classes, as defined in Regulation (EC) No. 1271/2008

Acute Toxicity No toxicological data available for this product.

Skin Corrosion / IrritationNo Toxicology data available for this product.

Serious Eye Damage / IrritationNo Toxicology data available for this product.

Respiratory or Skin Sensitisation May cause an allergic skin reaction.

Germ Cell Mutagenicity No Toxicology data available for this product.

Carcinogenicity 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.

11.2 Information about Other Hazards

Endocrine Disrupting PropertiesNo Ecological data available for this product.

Addition Toxicology InformationNo Toxicology data available for this product.

12. Ecological Information

12.1 Toxicity

Toxicity No Ecological data available for this product.

12.2 Persistence and Degradability

Persistence and Degradability

No Ecological data available for this product.

12.3 Bio-Accumulative Potential

Bio-Accumulative Potential No Ecological data available for this product.

12.4 Mobility in Soil

Mobility in Soil No Ecological data available for this product.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB

No Ecological data available for this product.

assessment

12.6 Endocrine Disrupting Properties

Endocrine Disrupting

Properties

No Ecological data available for this product.

12.7 Other Adverse Effects

Other Adverse Effects Avoid release to the environment.

13. Disposal Considerations

13.1 Waste Treatment Methods

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

Disposal of Packaging

Ensure INNER PACKAGING is disposed of by licensed waste carri-

ers. Some OUTER PACKAGING MAY be recyclable if not

contaminated.

14. Transport Information

14.1 UN Number

IATA UN No data ADR UN No data IMDG UN No data Number available. Number available. Number available.

14.2 Official UN Shipping Name

IATA Proper (4-amino-1-**ADR Proper** Non Hazardous IMDG Proper (4-amino-1methylpyrro-For Transport Shipping methylpyrro-Shipping Shipping (4-amino-1-Name lidin-2-one) Name Name lidin-2-one) methylpyrrolidin-2-one)

14.3 Hazard classes for transport purposes

IATA Hazard

Class IMDG Hazard No data **ADR Hazard** No data No data available. Class available. Class available.

14.4 Packing Group

IATA Packing No data ADR Packing No data **IMDG Packing** No data available. available. available. Group Group Group

14.5 Enviromental Hazards

IATA No data **ADR** No data No data **IMDG Environmental** available. **Environmental** available. **Environmental** available.

Hazards Hazards Hazards

14.6 Special Precautions

No Information Available

14.7 Bulk Maritime Transport in accordance with IMO Instructions

IATA Sub No data ADR Sub No data IMDG Sub No data Class available. Class available. Class available.

15. Regulatory Information

15.1 Health, safety and environmental regulations/legislation specific to the substance or mixture

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

Information product.

15.2 Chemical Safety Assessment

Chemical Safety There is no chemical safety assessment available for this product.

Assessment

16. Other Information

Information Not Covered in Other Sections

Information Not Covered

in Other Sections

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road (European agreement on the international transport of dangerous goods by road). RID: International Regulations concerning the Transport of Dangerous Goods by Rail (Regulations regarding 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 fra International Air Transport Association. ICAO: International Civil Aviation Organisation. ICAO-TI: Technical instruc-

tions from ICAO. GHS: Globally Harmonized System for Classification

and Labelling of Chemicals. CAS: Chemical Abstracts Service

Other Information

Revision 1

19/12/2024 18:46:00 **Date Modified**

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.