Safety Data Sheet

fluorochem.

1. Identification of the substance/mixture

1.1 Product identification

Product name 1-Bromo-3-methylbicyclo[1.1.1]pentane

Other names

 Product code
 F569793

 CAS
 137741-15-2

 MDL
 MFCD18826723

EINECS 190-871-4

REACH Registration

number

N/A

Nanoform The product does not contain nanoparticles.

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 Limited **Address** Unit 14, Graphite Way

Hadfield

Glossop Derbys. SK13 1QH

United Kingdom

Telephone +44 1457 860111

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 H225 Flam. Liq. 2

H314 Skin Corr. 1B

2.2 Label Elements

Signal Word

Pictograms

Danger





GHS02

GHS05

Hazards

Precautions

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

P101 If medical advice is needed, have product container or label at hand.

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 Use explosion-proof equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe 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 Wear protective gloves/protective clothing and eye/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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.

P310 Immediately call a POISON CENTER/doctor.

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

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use dry sand to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container to hazardous waste disposal.

Supplemental Hazard Information

2.3 Other Hazards

Other Classification This substance/mixture contains no components considered to be ei-

Hazards ther persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological Information This substance/mixture contains no components considered to have

endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or

Commission Delegated Regulation (EU) 2017/2100.

Toxicological Information This substance/mixture contains no components considered to have

endocrine disrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or

Commission Delegated Regulation (EU) 2017/2100.

3. Composition

3.1 SUBSTANCE

Name CAS Einecs Composition Hazards

1-Bromo-3- 137741-15-2 190-871-4

methylbicyclo[1.1.1

pentane

3.2 MIXTURE

Not applicable. Product is a substance.

4. First Aid Measures

4.1 Description of First Aid Measures

Eye Contact Where Diphoterine is not available, rinse eyes with copious amounts

of water for at least 20 minutes. Protect uninjured eye. Remove contact lenses if present and easy to do. Continue rinsing and seek im-

mediate medical attention.

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

conscious) and obtain immediate medical attention. Do not induce

vomiting.

Inhalation Remove person to fresh air and keep comfortable for breathing.

Immediately seek medical attention. If breathing is irregular or

stopped, administer artificial respiration.

Skin Contact Where Diphoterine is not available, wash immediately with plenty of

water and soap. Remove contaminated clothing immediately.

Immediately seek medical attention.

General Advice No additional advice.

4.2 Most Important Symptoms and Effects

Most Important Symptoms Severe burns may occur.

and 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

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.

No special requirements. Storage Controls

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

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 Measures Use 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.

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

quate extraction. No respiratory equipment is needed un-

der normal use conditions.

Hygiene Measures Ensure hair or skin particles cannot enter the chemical

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 Liquid

b) Colour
c) Odour
d) Melting Point / Freezing Point
No data available.
No data available.

e) Initial Boiling point or Boiling range 127.0°C

f) Flammabilityg) Upper / Lower Flammability orNo data available.No data available.

Explosion Limits

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

p) Relative Density 1.72g/cm³

q) Vapour DensityNo data available.r) AppearanceNo data available.

9.2 Other Safety Information

Other Information No data available.

10. Stability and Reactivity

10.1 Reactivity

Reactivity No data 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 No data available.

Products

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 / **Irritation** Strong corrosive effect on skin and mucous membranes.

Serious Eye Damage /

Irritation

Causes serious eye damage.

Respiratory or Skin

Sensitisation

No Toxicology data available for this product.

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

Properties

No Ecological data available for this product.

Addition Toxicology

Information

No 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

No Ecological data available for this product.

Properties

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	2920	ADR UN	2920	IMDG UN	2920
Number		Number		Number	

14.2 Official UN Shipping Name

CORROSIVE	ADR Proper	CORROSIVE	IMDG Proper	CORROSIVE
LIQUID,	Shipping	LIQUID,	Shipping	LIQUID,
FLAMMABLE,	Name	FLAMMABLE,	Name	FLAMMABLE,
N.O.S. (1-		N.O.S. (1-		N.O.S. (1-
Bromo-3-		Bromo-3-		Bromo-3-
methylbicyclo[1.		methylbicyclo[1.		methylbicyclo[1.
1.1]pentane)		1.1]pentane)		1.1]pentane)
	LIQUID, FLAMMABLE, N.O.S. (1- Bromo-3- methylbicyclo[1.	LIQUID, Shipping FLAMMABLE, Name N.O.S. (1- Bromo-3- methylbicyclo[1.	LIQUID, Shipping LIQUID, FLAMMABLE, Name FLAMMABLE, N.O.S. (1-Bromo-3-methylbicyclo[1.Bromo-3-methylbi	LIQUID, Shipping FLAMMABLE, Name N.O.S. (1- Bromo-3- methylbicyclo[1.

14.3 Hazard classes for transport purposes

IATA Hazard	8.0	ADR Hazard	8.0	IMDG Hazard	No data
Class		Class		Class	available.

14.4 Packing Group

IATA Packing II	ADR Packing II	IMDG Packing II
Group	Group	Group

14.5 Enviromental Hazards

Hazards

No data available. **ADR**

No data

IMDG

No data

3

Environmental available.

Hazards

Environmental available. **Hazards**

14.6 Special Precautions

No Information Available

14.7 Bulk Maritime Transport in accordance with IMO Instructions

IATA Sub Class

3

ADR Sub Class

3

IMDG Sub

Class

15. Regulatory Information

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

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

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

Other Sections

Information Not Covered in 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 instructions from ICAO. GHS: Globally Harmonized System for Classification and Labelling of Chemicals. CAS: Chemical **Abstracts Service**

Other Information

Revision

1

Date Modified

25/09/2025 11:18:59

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 inf-

ormation 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.