

SAFETY DATA SHEET

fluorochem.

1. Identification of Substance / Mixture

Product Identifier

1.1.2 Product Name 2,8-Dibromodibenzo[b,d]furan

1.1.2 Other Names

1.1.1 Product Code F332564

1.1.3 CAS 10016-52-1

1.1.4 MDL MFCD00093683

1.1.5 EINECS 634-508-4

1.1.6 REACH Registration Number

1.2.1 Relevant Uses For research and development purposes.

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

1.3.3 Telephone 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

Acute Tox. 3
Aquatic Chronic 4
Eye Irrit. 2

2.2.1 Signal Word

Danger



GHS06



GHS07

2.2.3 Hazards

H301 Toxic if swallowed.
H319 Causes serious eye irritation.
H413 May cause long lasting harmful effects to aquatic life.

2.2.4 Precautions

P101 If medical advice is needed, have product container or label at hand.
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.
P273 Avoid release to the environment.
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.
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).
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to hazardous waste disposal.

2.2.5 Other Classification Hazards**3. Composition****SUBSTANCE**

3.1.1 Name	3.1.2 CAS	Einecs	3.1.3 Composition	Hazards
2,8-Dibromodibenzo[b,d]furan	10016-52-1	634-508-4		H301 Acute Tox. 3 H319 Eye Irrit. 2 H413 Aquatic Chronic 4

4. First Aid Measures**4.1.1 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 immediate medical attention.

4.1.2 Ingestion

If swallowed rinse the mouth with plenty of water (only if the person is conscious) and immediately contact a poison centre or physician.

4.1.3 Inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration and seek immediate medical attention.

4.1.4 Skin Contact

Where Diphoterine is not available, wash immediately with plenty of water and soap. Remove contaminated clothing immediately. Immediately seek medical attention.

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.

5.1.2 Unsuitable Fire Extinguishing Media

No known unsuitable media.

5.2.1 Special Hazards

In combustion toxic fumes may form.

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 Incompatibilities

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	Solid
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	192-193°C
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 Explosion Limits	No data available.
9.1.13 Vapour Pressure	No data available.
9.1.14 Vapour Density	No data available.
9.1.15 Relative Density	1.886 g/cm ³
9.1.16 Solubility	
9.1.17 Partition Coefficient	5.53
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 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 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

Toxic if swallowed.

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.

12.2.1 Persistence and Degradability

No Ecological data available for this product.

12.3.1 Bio-Accumulative Potential

No Ecological data available for this product.

12.4.1 Mobility in Soil

Log Pow: 5.53

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

May cause long lasting harmful effects to aquatic life.

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

2811

ADR UN Number

2811

IMDG UN Number

2811

14.1.2 IATA Proper Shipping Name

TOXIC SOLID, ORGANIC, N.O.S. (2,8-Dibromodibenzo[b,d]furan)

ADR Proper Shipping Name

TOXIC SOLID, ORGANIC, N.O.S. (2,8-Dibromodibenzo[b,d]furan)

IMDG Proper Shipping Name

TOXIC SOLID, ORGANIC, N.O.S. (2,8-Dibromodibenzo[b,d]furan)

IATA Packing Group

III

ADR Packing Group

III

IMDG Packing Group

III

14.1.4 IATA Hazard Class

6.1

ADR Hazard Class

6.1

IMDG Hazard Class

6.1

14.1.5 IATA Sub Class

- None -

ADR Sub Class

- None -

IMDG Sub Class

- None -

15. 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 Assessment No Chemical Safety Assessment is available for this product.

16. Other Information

16.1.2 Information Not Covered in Other Sections

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

1

Date Modified

Feb 14, 2025 1:28:00 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.