Safety Data Sheet



1. Identification of Substance / Mixture

Product Identifier

Product Name 1,1,1,5,5,6,6,7,7,7-Decafluoro-2,4-heptanedione

Other Names

 Product Code
 001491

 CAS
 20583-66-8

 MDL
 MFCD00040961

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 Corr. 1B

Signal Word Danger

Pictograms

GHS05

Hazards H314 Causes severe skin burns and eye damage.

Precautions P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear face protection.

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

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

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

Other Classification Hazards

3. Composition of Ingredients

SUBSTANCE

Name CAS Einecs Composition Hazards

1,1,1,5,5,6,6,7,7,7-Decafluoro- 20583-66-8 N/A <= 100% H314 Skin Corr. 1B

2,4-heptanedione

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

immediate 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

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

immediately. Immediately seek medical attention.

General Advice No additional advice.

Severe burns may occur.

Most Important Symptoms and

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**

Containment - Methods and

Materials Referenced SDS Sections Spill Response should only be carried out by trained or qualified personnel.

For personal protection see section 8. For disposal see section 13.

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

Liauid State

Pale yellow liquid **Appearance**

Biting Odour

Odour Threshold No data available. No data available. рН No data available. **Melting Point / Freezing Point** No data available. **Initial Boiling Point** 98°C to 100°C **Boiling Range** No data available. **Flash Point** No data available. **Evaporation Rate** No data available. **Flammability** No data available. Upper / Lower Flammability or **Explosion Limits** 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**

Other information No additional information available

10. Stability and Reactivity

Reactivity No known reactivity, based on information available.

Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal storage conditions.

Conditions To Avoid Excess heat. Exposure to moisture.

Incompatible MaterialsStrong oxidising agents.Hazardous Decomposition ProductsNo Data Available.

11. Toxicology Information

Acute Toxicity

No Toxicology data available for this product.

Skin Corrosion / Irritation Strong corrosive effect on skin and mucous membranes.

Serious Eye Damage / Irritation Strong corrosive effect.

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

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

No Ecological data available for this product.

Other Adverse Effects

No Ecological data available for this product.

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.

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IATA UN Number	3265	ADR UN Number	3265	IMDG UN Number	3265
IATA Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1,1,1,5,5,6,6,7,7,7- Decafluoro-2,4- heptanedione)	ADR Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1,1,1,5,5,6,6,7,7,7- Decafluoro-2,4- heptanedione)	IMDG Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1,1,1,5,5,6,6,7,7,7- Decafluoro-2,4- heptanedione)
IATA Packing Group	III	ADR Packing Group	III	IMDG Packing Group	III
IATA Hazard Class	8	ADR Hazard Class	8	IMDG Hazard Class	8
IATA Sub Class		ADR Sub Class		IMDG Sub Class	-
				IMDG Special Provisions	
				IMDG IBS Instructions	
				IMDG IBC Instructions	IBC03
				IMDG Tank Instructions	Т7
				IMDG Tank Provisions	TP1, TP28

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

concerning the International Carriage of Dangerous Goods by road)

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

1.42

Date Modified

03/11/2022

Disclaimer

Revision

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.