According to Regulation (EC) No. 1272/2008 Language : English

Safety Data Sheet

Revision: 3.00 Modified: 2021-04-23

1: Identification of substance / mixture

1. Product Identifier Substance

Product Name Diethyl cyclopent-3-ene-1,1-dicarboxylate

Product Code 447398

CAS Number 21622-00-4

Other Names DIETHYL 3-CYCLOPENTENE-1,1-DICARBOXYLATE

1,1-diethyl cyclopent-3-ene-1,1-dicarboxylate

IUPAC

MFCD Number MFCD04115567 EC/EINECS 847-980-3

REACH Number Index-No

2. Relevant identified uses of the substance or mixture and uses advised against

3. Details of the supplier of the safety data sheet

Fluorochem Ltd Unit 14,Graphite Way

Hadfield Derbyshire

Derbyshire SK13 1QH UK fluorochem

Telephone: +44(0)1457 860111
Fax: +44(0)1457 892799
Email: sds@fluorochem.co.uk

4. Emergency telephone number

+44(0)7855 268577 -

2. Hazards Identification

1. Classification of the substance or mixture

H315	Skin Irrit. 2
H319	Eye Irrit. 2
H335	STOT SE 3

2. Label elements

Signal Word Warning



Hazard Statements

H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	

Precautionary Phrases

P264	Wash hands thoroughly after handling.	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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.	
P332 + P313	If skin irritation occurs: Get medical advice/attention.	
P337 + P313	If eye irritation persists: Get medical advice/attention.	

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

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Product Name Hazards Concentration

Diethyl cyclopent-3-ene-1,1-dicarboxylate

CAS Number: 21622-00-4 H315, H319, H335 Eye Irrit. 2, Skin Irrit. 2, STOT SE 3 <=100% EC/EINECS: 847-980-3

4. First Aid Measures

1. Description of first aid measures

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

P332 + P313: If skin irritation occurs: Get medical advice/attention.

Eye Contact P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

Ingestion Wash out mouth with water.

Inhalation P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

2. Most important symptoms and effects

No symptoms.

3. Indication of any immediate medical attention

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

No additional measures required

5. Firefighting measures

1. Extinguishing Media

Suitable Carbon dioxide.

Dry chemical powder.

Water.

Unsuitable Do not use water with a full water jet

2. Special Hazards arising from the substance or mixture

In combustion toxic fumes may form.

3. Advice for Fire Fighters

Wear protective clothing to prevent contact with skin and eyes.

Wear self-contained breathing apparatus.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Mix with sand or vermiculite.

Transfer to a suitable container.

4. Preventing the occurrence of secondary hazards.

No Special Measures Required

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7. Handling and Storage

1. Personal Precautions

Handle in fume hood. Safe Handling

> Wash hands immediately after contamination. P264: Wash hands thoroughly after handling.

Protection against explosions and fires P362: Take off contaminated clothing and wash before reuse.

normal measures for preventive fire protection

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Keep container tightly closed.

Store in cool, well ventilated area.

Storage Controls No special requirements

Maintaining Integrity Keep in tightly closed container in cool area away from direct sunlight or heat sources.

Other advice P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures

P280: Wear protective gloves/protective clothing/eye protection/face protection. The standard precautionary measures should be adhered to when handling

Wash hands during breaks and at the end of handling the material

Immediately remove any contaminated clothing

P271: Use only outdoors or in a well-ventilated area. Engineering measures

Ensure there is sufficient ventilation of the area.

Eye / Face Protection Safety Glasses.

Hand protection Protective gloves.

Respiratory protection P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

Respiratory protection not required.

Skin protection Protective clothing.

Other personal protection

advice

no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Liquid
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available

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Upper/lower flammability or explosive limits	No Data Available	
Vapour pressure	No Data Available	
Vapour density	No Data Available	
Relative density	No Data Available	
Solubility(ies):	No Data Available	
Partition coefficient: n-octanol/water	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	No Data Available	

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

no unusual reactivity

2. Stability

Stable under normal conditions.

3. Possibility of Hazardous Reactions

no hazardous reactions known

4. Conditions to Avoid

no specific conditions to avoid

5. Incompatible Materials

Strong oxidizing agents.

6. Hazardous Decomposition Products

In combustion emits toxic fumes.

In combustion emits toxic fumes of hydrogen chloride / phosgene.

11. Toxicology information

1. Information

Acute Toxicity no data

Skin corrosion/irritation irritant for skin and mucous membranes

Serious eye irritant effect

Damage/irritation

Respiratory or skin

sensitisation

No sensitizing effect known

Germ Cell mutagenicity not known

Carcinogenicity not known

Reproductive toxicity not known

STOT-single exposure not known

STOT-repeated exposure not known

Aspiration hazard not known

2. Additional

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To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC,NTP,OSHA or ACGIH

12. Ecological Information	n en
1. Toxicity	
not known	
2. Persistence and deg	
not known	
3. Bio-Accumulative Po	otential
not known	
4. Mobility and Soil	
not known	
Results of PBT & vP not known	vB assessment
Other adverse effect not known	.s
Hot Known	
13. Disposal Consideration	ons Control of the Co
1. Waste Treatment Mo	
Disposal Operations	Consult state, local or national regulations for proper disposal. Hand over to authorised disposal company as hazardous waste.
Disposal of Packaging	Disposal must be made according to official regulations.
14. Transport Information	
Air (ICAO)	
Not classified as hazardou	us for transport
Road (ADR)	
Not classified as hazardou	us for transport
Sea (IMDG)	
Not classified as hazardou	us for transport
15. Safety, health, enviro	onmental and national regulations
•	onmental and national regulations:
product is not subject to	any additional regulations or provisions

2. Safety Assessment

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No Chemical Safety Assessment

16. Other Information

1. Other Information:

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

3. 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.