5,6-Dithiadecane



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

<u>*Trade name*</u> 5,6-Dithiadecane

1.2. Relevant identified uses of the substance or mixture and uses advised against <u>Relevant identified uses</u>

Research and development.

Not suitable for use in

Not suitable for human consumption or veterinary purposes.

1.3. Details of the supplier of the safety data sheet

<u>Supplier</u> Molekula Group

Address Molekula Ltd, Lingfield Way, Darlington, DL1 4XX Darlington United Kingdom

Telephone +44 (0) 3302 000 333

Email info@molekula.com

Web site www.molekula.com

<u>Contact person</u> Kevin Banks

<u>Email</u> +44 (0) 7769276927

1.4. Emergency telephone number

<u>Poison center/Additional emergency number</u> 0344 892 0111 - National Poisons Information Service (Newcastle Centre)

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Skin irritation, hazard category 2 Eye irritation, hazard category 2 Specific Target Organ Toxicity — Single exposure, hazard category 3

Hazard statements

H315, H319, H335

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word Warning

Hazard statements

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

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fumes/gas/mist/vapours/spray. P262 Do not get in eyes, on skin, or on clothing. P264 Wash skin 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/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of 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. P314 Get medical advice/attention if you feel unwell. P332 + P313 If skin irritation occurs: Get medical advice/attention. P337 + P313 If eye irritation persists: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container to local regulations.



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2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
5,6-Dithiadecane	629-45-8 211-091-3 - -	100%	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3	H315, H319, H335 - -	-

Molecular weight

178.36

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move to fresh air if inhaled. Get medical attention if any discomfort continues.

Skin contact

Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact

Remove contact lenses if present. Rinse eyes with water. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Get medical advice/attention if you feel unwell.

Information for doctors

No data available.

4.2. Most important symptoms and effects, both acute and delayed

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

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<u>Inhalation</u> May cause respiratory irritation.

<u>Skin contact</u>

Prolonged contact may cause dryness of the skin.

Eye contact

May be slightly irritating to the eyes.

Ingestion

May cause discomfort if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. No special treatment requirement.

SECTION 5: Firefighting measures

5.1. Extinguishing media <u>Suitable extinguishing media</u> Foam, carbon dioxide or dry powder.

Unsuitable extinguishing media

No specific fire fighting procedure given.

5.2. Special hazards arising from the substance or mixture

Specific hazards: Combustible.

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Carbon monoxide (CO). Carbon dioxide (CO2).

Sulphur oxides

Vapours are heavier than air and may spread near ground to sources of ignition.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Evacuate area. Avoid breathing gas, fume, vapours or spray. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. For personal protection, see section 8.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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6.3. Methods and material for containment and cleaning up

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Wear protective clothing, gloves, eye and face protection. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid ingestion and inhalation. For precautions see section 2.2. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

General hygiene

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use. Wash skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Store at ambient temperature. Store in a dry place. Store in a closed container.

7.3. Specific end use(s)

No specific usage precautions noted.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

No occupational exposure limit assigned.

8.2. Exposure controls

Personal Protective Equipment Symbols



Eye / face protection Wear eye protection.

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Hand protection

Wear protective gloves. Recommended gloves: Viton rubber (fluor rubber). Glove Thickness: 0.7mm Breakthrough time: 8 hours No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash contaminated skin thoroughly after handling.

Other skin protection

Wash skin thoroughly after handling.

Respiratory protection

Provide adequate ventilation.

Environmental exposure controls

Avoid discharge into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid

<u>Colour</u> Light yellow

<u>Odour</u> Stench

<u>Melting point / freezing point</u> -94 °C

Boiling point or initial boiling point and boiling range 229 - 233 °C

Flammability No data available

Lower and upper explosion limit

No data available

<u>Flash point</u> 93 °C Method CC (Closed cup).

<u>Auto-ignition temperature</u> No data available

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> *Decomposition temperature* No data available

<u>рН</u> No data available

Kinematic viscosity No data available

Solubility No data available

Partition coefficient n-octanol/water No data available

Vapour pressure

No data available

Density and/or relative density

0.938 g/cm3 at 25 °C - lit.

Relative vapour density

No data available

Particle characteristics

No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Forms explosive mixtures with air on intense heating. 15 (approx) Kelvin below the flash point is to be rated as critical.

10.2. Chemical stability

Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Violent reactions possible with: Strong oxidising agents. Strong reducing agents. Strong bases

10.4. Conditions to avoid

strong heating



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10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous decomposition products See section 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 <u>Aspiration hazard</u>

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment No data available

12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of contents/container in accordance with local/regional/national/international regulations.

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SECTION 14: Transport information

14.1. UN number

3334

14.2. UN proper shipping name

IATA proper shipping name

Aviation regulated liquid, n.o.s. (5,6-Dithiadecane)

14.3. Transport hazard class(es)

<u>Label</u> IATA



<u>IATA Class</u> 9

- 14.4. Packing group IATA: III
- 14.5. Environmental hazards Not applicable

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14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. This material safety data sheet complies with the requirements of Regulation (EU) 2020/878.

National regulations

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

Phrase meaning

Skin Irrit. 2 - Skin irritation, hazard category 2
Eye Irrit. 2 - Eye irritation, hazard category 2
STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.