

Dimeryl Diisocyanate (DDI-1510)

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

1.1. Product identifier

Product name: Dimeryl Diisocyanate (DDI-1510)
CAS Number: 68239-06-5
EC Number: 269-419-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use: For Industrial use only

1.3 Details of the supplier of the safety data sheet

Company name: East Harbour Group Ltd
20 Clough Road, Severalls Industrial Park
Colchester, Essex, CO4 9QS
United Kingdom

Telephone: +44 (0) 333 242 0100
Email: info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2A)
Skin sensitization (Category 1)

2.2 Label elements

Pictogram



Signal word

Warning

Hazard statement(s)

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

Precautionary statement(s) [Prevention]

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P280 Wear protective gloves and eye/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P264 Wash with plenty of water and soap thoroughly after handling.

[Response]

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303 + P352

IF ON SKIN (or hair): Wash with plenty of soap and water.

P333 + P311

IF skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.

P332 + P313

IF skin irritation occurs: Get medical advice/attention.

P362 + P364

Take off contaminated clothing and wash before reuse.

P337 + P311

IF eye irritation persists: Call a POISON CENTER or doctor/physician.

[Disposal]

P501

Dispose of contents/container in accordance with local regulations.

2.3 Other hazards which do not result in classification

No specific dangers known, if the regulations/notes for storage and handling are considered.

Section 3: Composition/information on ingredients

Chemical name	Cyclohexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentyl-
Commercial name	DDI 1510
CAS Number	68239-06-5
Content (W/W)	100%

Section 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove the affected individual into fresh air and keep the person calm. Seek medical attention.

Skin Contact

Wash affected areas with water while removing contaminated clothing. Seek medical attention.

Eye Contact

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If Swallowed

Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

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

Symptoms: The most important known symptoms and effects are described in section 2 and/or in section 11., Further important symptoms and effects are so far not known.

4.3. Indication of any immediate medical

Note to physician

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Section 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media

Water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons

Water jet

5.2. Special hazards arising from the substance or mixture

Hazards during fire-fighting

Harmful vapours Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Special protective actions for fire-fighters

Protective equipment for fire-fighting

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Keep people away and stay on the upwind side.

6.2 Environmental precautions

Do not discharge into drains/ surface waters/ groundwater.

6.3. Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Technical measures

Handling is performed in a well-ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling:

Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed. Store in a cool and dark place.

Protect from moisture.

Store away from incompatible materials such as oxidizing agents.

Moisture-sensitive

Packaging material

Comply with laws.

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Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

8.2 Exposure controls /

8.2.1. Engineering controls

Showers
Eyewash stations
Ventilation systems

8.2.2. Personal protective equipment

Eye/ face protection

Tight sealing safety goggles.

Skin/ hand protection

Wear protective gloves and protective clothing

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Physical Form	Liquid
Odor, Colour, Grade	Yellow
Odor threshold	Not determined due to potential health hazard by inhalation.
pH	Not soluble
Melting point	No data available
Boiling Point	> 540 °C
Flash Point	290 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammable Limits (LEL)	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Density	0.920 g/cm ³
Specific Gravity	No data available
Solubility in Water	No data available

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Solubility- non-water	No data available
Partition coefficient: n-octanol/ water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Hazardous air pollutants	No data available
Volatile organic compounds	No data available
Percent volatile	No data available
VOC Less H2O & Exempt Solvents	No data available

Section 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties

Not fire-propagating

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions. The product is chemically stable.

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None known during use and storage if used according to instructions.

10.6. Hazardous decomposition products

Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed /indicated.

Thermal decomposition

Not determined

Section 11: Toxicological Information

11.1 Toxicological effects:

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity:

Oral

Type of value: LD50

Value: > 5,000 mg/kg (OECD Guideline 401)

The product has not been tested. The statement has been derived from the structure of the product.

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Inhalation	Type of value: LC50 Species: rat Exposure time: 4 h, not determined
Dermal	Type of value: LD50 Species: rat, not determined
Eye	Species: rabbit Result: Irritant. The product has not been tested. The statement has been derived from substances / products of a similar structure or composition.
Sensitization	Result: sensitizing The product has not been tested. The statement has been derived from the structure of the product.
Aspiration Hazard	No aspiration hazard expected.

Section 12: Ecological Information

12.1 Toxicity

Ecotoxicity effects

Toxicity to fish	LC50 - Danio rerio (zebra fish) - 100 mg/l - 96.0 h The product has not been tested. The statement has been derived from the structure of the product.
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia magna (Water flea) - 100 mg/l -48h The product has not been tested. The statement has been derived from the structure of the product.
Toxicity to algae	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	PBT/vPvB assessment not available as chemical safety assessment not required/ not conducted.
12.6 Other adverse effects	No Data Available

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal of wastes

Should not be released into the environment. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

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Do not reuse container.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: Transport Information

Land transport

USDOT Not classified as a dangerous good under transport regulations.

Sea transport

IMDG Not classified as a dangerous good under transport regulations.

Air transport

IATA/ ICAO Not classified as a dangerous good under transport regulations.

Section 15: Regulatory Information

US Federal Regulations

Registration status Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories) Acute.

NFPA Hazard codes	Health: 2	Fire: 1	Reactivity: 1	Special:
HMIS III rating	Health: 2	Flammability: 1	Physical hazard: 1	

Section 16: Other Information

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