

DIMERYL DIISOCYANATE (DDI 1510)

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

1.1 Product identifier

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

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

Identified use: Laboratory chemicals, manufacture of substances

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: 2
Eye damage/irritation: 2A
Skin sensitivity: 1

2.2 Label elements

Signal Word: Warning



H319: Causes serious eye irritation
H315: Causes skin irritation
H317: May cause an allergic skin reaction
P280: Wear protective gloves and eye-face protection



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P261:	Avoid breathing dust, fume, gas, mist, vapours and/or spray
P272:	Contaminated work clothing should not be allowed out of the workplace
P264:	Wash with plenty of water and soap thoroughly after handling
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+P313:	If skin irritation or rash occurs call a POISON CENTRE or doctor/physician
P332+P313:	If skin irritation occurs get medical advice/attention
P362+P364:	Take off contaminated clothing and wash before reuse.
P501:	Dispose of contents/container in accordance with local regulations

2.3 Other hazards

No other specific dangers known.

Section 3: Composition/information on ingredients

3.2 Mixtures

CAS #	Content (W/W)	Ingredients
68239-06-5	100%	Cyclohexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentyl

Chemical name: Cyclohexane, 2-heptyl-3,4-bis(9-isocyanatononyl)-1-pentyl

Common name / synonyms: DDI 1510

Section 4: First aid measures

4.1 Description of first aid measures

General advice: Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). First aid personnel should pay attention to their own safety.

In case of skin contact: Wash affected areas with water while removing contaminated clothing. Seek medical attention.

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

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

4.2 Most important symptoms and effects, both acute and delayed

Further important effects are not known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote.



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Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: water spray, dry powder, foam
Unsuitable extinguishing media: water jet

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
Further information: The degree of risk is governed by the burning substance and the fire conditions.
Contaminated extinguishing water must be disposed of in accordance with official regulations.

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 or 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

Keep away from sources of ignition – no smoking. Take precautionary measures against static discharge.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed at all times. Store in the dry and cool place. If stored at temperatures higher than 15 C, the shelf life of the product may be reduced.

Section 8: Exposure controls/personal protection

8.1 Control parameters

No information available.

8.2 Exposure controls

General industrial hygiene practice.



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8.3 Personal protective equipment

Respiratory protection: wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapor/aerosol release. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Observe OSHA regulations for respirator use.

Hand protection: chemical resistant protective gloves

Eye protection: tightly fitting safety goggles (chemical goggles) and face shield

Body protection: body protection must be chosen based on level of activity and exposure

General safety and hygiene measures: handle in accordance with good industrial hygiene and safety practice

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Light amber in colour
Physical State	Liquid
Odour	Aromatic
Odour Threshold	Not determined
pH	Not soluble
Melting Point/Range	No information available
Boiling Point/Range	>540 C
Flash Point	290 C (ASTM D92)
Evaporation Rate	Not determined
Flammability (solid, gas)	Not flammable
Explosion Limits	Not relevant
Vapor Pressure	Not determined
Vapor Density	Not determined
Specific Gravity / Density	Approx. 0.920 g/cm ³
Bulk Density	Not determined
Water Solubility	Insoluble
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined

Section 10: Stability and Reactivity

10.1 Reactivity

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

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.



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10.4 Conditions to avoid

None if used for intended purposes.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

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

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 or gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute toxicity/effects:

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 this product.

Inhalation

Type of value: LC50

Species: rat

Exposure: 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.

Sensitisation

Result: sensitising

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

Aspiration Hazard

No aspiration hazard expected.

Chronic toxicity/effects – symptoms of exposure

Further important symptoms and effects are so far not known.

Section 12: Ecological Information

12.1 Toxicity

Ecotoxicity effects

Toxicity to fish: LC50 (96 h) > 100 mg/l, Fish



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

Aquatic invertebrates: EC50 (48 h) > 100 mg/l, daphnia
The product has not been tested. The statement has been derived from the structure of the product.

Aquatic plants: EC50 (72 h), algae: not determined

Toxicity to microorganisms: bacteria/EC0 (0.5 H): not determined

Persistence and degradability: assessment biodegradation and elimination (h2o). Not readily biodegradable (be OECD criteria). The product has not been tested. The statement has been derived from the properties of the individual components.

Section 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal of substance:

The disposal of waste and/or remnants should comply with national, state and local regulations. Do not discharge the waste and/or remnants into drains/surface waters/groundwater.

Section 14: Transport Information

Land transport USDOT: Not classified as dangerous goods under transport regulations
Sea transport IMDG: Not classified as dangerous goods under transport regulations
Air transport IATA/ICAO: Not classified as dangerous goods under transport regulations

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

EPCRA 311/312 (Hazard categories): Acute
NFPA Hazard codes
Health: 2 / Fire: 1 / Reactivity: 1
HMIS III Rating
Health: 2 / Flammability: 1 / Physical hazard: 1