

DPTU-14859-2 Part A

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name: DPTU -14859-2 Part A
Chemical Name: Polyurethane Prepolymer
Supplier: Jacobson Chemicals Ltd
 Unit 4
 Newman Lane Industrial Estate
 Alton
 Hants
 GU34 2QR
Telephone: 01420 86934
Fax: 01420 549574
E-mail: sales@jacobsonchemicals.co.uk

2. COMPOSITION

Substance: N/a
Substance Name: N/a
EC Index No: N/a
EEC Number: N/a

<u>Constituents</u>	<u>CAS No</u>	<u>EC No</u>	<u>%</u>	<u>EEC Symbol</u>	<u>Risks</u>
Methylene bis (4-cyclohexylisocyanate)	005124-30-1	2258632	30 - 50	T	R23, R36/37/38, R42/43
2-(2'-Hydroxy-3',5'-di-tert-amyphenyl)benzotriazole	025973-55-1	2473848	0.2 - 0.6	Xn	R48, R22

3. HAZARD IDENTIFICATION

The most important hazards are: Avoid contact with skin, eyes and inhalation. Risk of explosion if heated under confinement.
Inhalation: Toxic by inhalation. Irritant. May cause sensitization.
Skin Contact: Irritating to skin. May cause sensitization.
Eye Contact: Irritating to eyes.
Ingestion: -

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4. FIRST AID MEASURES

Immediate medical attention:	Yes
Professional assistance from physician required?	Yes
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. Apply artificial respiration if patient is not breathing.
Skin Contact:	Wash immediately with plenty of water and soap. Remove contaminated clothing and shoes without delay. Obtain medical attention. Do not reuse contaminated clothing without laundering. Destroy or thoroughly clean shoes before reuse.
Eye Contact:	Rinse immediately with water for at least 15 minutes. Obtain medical advice if there are persistent symptoms.
Ingestion:	Material is not expected to be harmful by ingestion. No specific first aid measures are required.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. If water spray or alcohol is used it should be in large quantities.
Protective equipment:	Firefighters and others exposed, wear self contained breathing apparatus. Wear full firefighting protective clothing. See Section 8 (Exposure Controls).
Special exposure hazards:	Water or alcohol foam may react vigorously with hot isocyanate releasing carbon dioxide. Do not reseal contaminated containers since pressure build up may cause rupture. Keep containers cool by spraying with water if exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Where exposure level is known, wear approved respirator suitable for level of exposure. Where exposure level is not known, wear approved, positive, self-contained respirator. In addition to the protective clothing/equipment in Section 8, wear impermeable boots.
Methods of Cleaning:	Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

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7. HANDLING & STORAGE

Handling: None
Storage: None

8. EXPOSURE CONTROLS

Take measures to prevent: Skin and eye contact. Inhalation.

Exposure to control limits:

Respiratory protection: Where exposures are below the established exposure limit, no respiratory protection is required. When exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

Skin Protection: Avoid skin contact. Wear impermeable gloves and suitable protective clothing.

Eye Protection: Wear eye/face protection such as chemical splash proof goggles or face shield. Eyewash equipment and safety shower should be provided in areas of potential exposure.

Engineering Measures: Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure when spraying or curing at elevated temperatures.

Additional Advice: Food, beverages, and tobacco products should not be carried, stored or consumed where this material is in use. Before eating, drinking or smoking, wash face and hands thoroughly with soap and water. It is recommended that a shower be taken after completion of work shift especially if significant contact has occurred. Work clothing should be laundered prior to reuse. Street clothing should be stored separately from work clothing and protective equipment. Work clothing and shoes should not be taken home.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: Viscous liquid
Odour: Not specific
Colour: Clear
Specific Gravity: 1.06
Solubility with water: Reacts with water
Flash Point: >100°C
Flash Point Method: Closed cup

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10. STABILITY & REACTIVITY

Stability:	Stable
Conditions to avoid:	Avoid contact with acids, oxidizing agents, bases or amines.
Materials to avoid:	Oxidizing agents, strong acids, amines
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, traces of hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

Oral LD50 (rat):	Not applicable	>5000 mg/kg	(estimated)
Dermal LD50 (rabbit):	Not applicable	>2000 mg/kg	(estimated)
Inhalation LC50 (4-hour rat):	Toxic	0.6 mg/L	(estimated)
Skin irritation (rabbit):	Irritating		
Eye irritation (rabbit):	Irritating		
Dermal sensitization:	Sensitizing		
Inhalation Sensitization:	Sensitizing		
Ames Salmonella Assay:	No data		

POTENTIAL HEALTH EFFECTS:

Toxic by inhalation.
Irritating to eyes, respiratory system and skin.
May cause sensitization by inhalation and skin contact.

HAZARDOUS INGREDIENT TOXICITY DATA

005124-30-1 Methylene bis(4-cyclohexylisocyanate)

<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Results</u>	<u>Assessment</u>
Acute LD50 (Actual)	Oral gavage)	Rat	>9900 mg/kg	Not applicable
Acute LD50 (Actual)	Dermal	Rabbit	>7900 mg/kg	Not applicable
Acute LC50 (4hr)	Inhalation	Rat	0.295 - 0.307 mg/l	Harmful
Acute Dermal Irritation				Irritating
Acute Eye Irritation				Irritating
Pulmonary Sensitization				Sensitizing
Skin Sensitization				Sensitizing
Ames Salmonella Assay				Not mutagenic
May cause respiratory tract damage				

025973-55-1 2-(2'-Hydroxy-3',5'-di-tert-amylphenyl)benzotriazole

<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Results</u>	<u>Assessment</u>
Acute LD50 (Actual)	Oral gavage)	Rat	>7750 mg/kg	Not applicable
Acute LD50 (Actual)	Inhalation	Rat	0.4 mg/l	Not applicable
Acute Dermal Irritation		Rabbit		Not Irritating
Acute Eye Irritation		Rabbit		Not Irritating
Skin Sensitization		Guinea Pig		Not sensitizing
Ames Salmonella Assay				Not mutagenic

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

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In prolonged test with laboratory animals this product caused damage to liver, kidney and reproduction organs.

12. ECOLOGICAL INFORMATION

Assessment: No aquatic LC50, BOD or COD data available.
Test Results: Octanol/H₂O Partition Coef: Not applicable.

13. DISPOSAL CONSIDERATIONS

Likely residues / waste products: N/a
Safe handling of and residues/waste products: Organic materials, especially when classified as hazardous waste, to be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

14. TRANSPORT INFORMATION

Special carriage precautions in carriage:

Classification data:

UN Number:

3334

Proper Shipping Name:

Aviation regulated liquid, n.o.s.

IMO - Sea:

Not applicable/not regulated

ICAO - Air:

Class: 9 Packing Group: III

Passenger Aircraft: 906; 100L

Cargo Aircraft: 906; 220L

Technical Name (n.o.s.) : Contains methylene bis[4-cyclohexylisocyanate]

Not applicable/Not regulated

ADR - Road:

Transport Category:

Limited Quantity Size:

Additional Data:

Technical Name(n.o.s.): Contains methylene bis[4-cyclohexylisocyanate]

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15. REGULATORY INFORMATION

Supply label information:	Toxic
Hazard Symbol:	T
Risk Phrases:	R23 - Toxic by inhalation. R36/37/38 - Irritating to eyes, respiratory system and skin. R42/43 - May cause sensitization by inhalation and skin contact. R44 - Risk of explosion if heated under confinement.
Safety Phrases:	S3/7/9 - Keep container tightly closed in a cool, well ventilated place. S28 - After contact with skin, wash immediately with plenty of soap and water. S38 - In case of insufficient ventilation, wear suitable respiratory equipment. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

INVENTORY INFORMATION

EEC EINECS:	All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC and its amendments.
US TSCA:	All components of this product are included on the TSCA Inventory in compliance with the Toxic Substances Control Act, 15 U.S.C. 26012 et seq.
CANADA DSL:	This product contains components not on the Domestic Substances List. These components are on the Non-Domestic Substances List.

16. OTHER INFORMATION

a) Training needs:	Refer to technical data.
b) Recommended uses and restrictions:	
c) Further references:	
d) Key data sources:	Manufacturer's data.

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The data contained in this Safety Data Sheet has been supplied as required, by the Chemicals (Hazard Identification and Packaging) Regulations 1994, as amended, for the purposes of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

Please ensure that it is passed to the appropriate person in your company, who is capable of acting on the information.

NOTE:

This data sheet does not constitute a user's assessment of workplace risk as required by HSW Act, COSHH, Management of Health and Safety at Work regulations, or other Health & Safety at Work regulations.