

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME : D345 PU Adhesive
USE : Industrials.
PRODUCT TYPE : One Component Polyurethane Adhesive
CHEMICAL FAMILY : Poly-isocyanate/ Diol
SUPPLIER : Dunlop Adhesives (Thailand) Limited
ADDRESS : 700/242 Moo1 Bankao Sub-District, Panthong
 District Chonburi Province 20160
CONTACT NUMBERS : Tel : (038)465 661-2, Fax : (038)465 663

2. HAZARDS IDENTIFICATION

2.1. Classification of the mixture

Classification according to Regulation (EC) No 1272/2008


This product is classified as dangerous/irritant according to EU Directives-(EC) No.1272/2008.

Eye Irrit. 2

Skin Irrit. 2

Acute Tox. 4

2.2. Label Elements Danger of Symbol :

Signal Word	Danger
(Pictogram)	
(Hazard Code)	(Hazard Statement)
Xn	Harmful
R 36/37/38	Irritating to eyes, respiratory system and skin
R 42/43	May causes sensitization by inhalation and skin contact



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Labeling according to Regulation EC No 1272/2008 (CLP)

Contains isocyanates. May produce an allergic reaction

Hazard Statements

H332: Harmful if inhaled.

H319: Causes serious eye irritation.

H315: Causes skin irritation.

H302: Harmful if swallowed.

H312: Harmful in contact with skin

Precautionary Statements

P102: Keep out of reach of children.

P280: Wear protective gloves and eye protection/face protection.

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

P305+351+338:

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

P337+313: If eye irritation persists get medical advice/attention

P501: Dispose of contents/container to manufacturer/competent authority

P362: Take off contaminated clothing and wash before reuse

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	C.A.S No.	% by Wt
Diphenylmethane Diisocyanate	9016-87-9	30 - 45
Diphenylmethane-4,4-diisocyanate	101-68-8	15 - 20
Polypropylene Triol	25791-96-2	40 - 50

4. FIRST AID MEASURES

4.1. In case of eye contact:

Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes) Seek medical advice.



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4.2. In case of skin contact:

Wipe off. Wash affected areas with soap and plenty of water. If irritation persists, seek medical advice.

4.3. If swallowed:

Do not induce the patient to vomit. Rinse mouth. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Seek medical advice.

4.4. If inhaled:

Take the person into the fresh air. Seek medical advice.

5. FIRE FIGHTING MEASURES

5.1. Special protective equipment/procedures:

A self-contained respirator and protective clothing should be worn. Mask and chemical resistant personal protective equipment should be used. Determine the need to evacuate or isolate the area according to your local emergency plan.

5.2. Hazards during fire fighting

No data available

5.3. Suitable extinguishing media:

Water fog (if unavailable fine water spray), foam, dry chemical or carbon dioxide can be used.

5.4. Unsuitable extinguishing media:

No data available

5.5. Hazards combustion products:

No data available .

6. ACCIDENTAL RELEASE MEASURES

6.1. Spill / Leak:

Avoid contact with. Ventilate the area with fresh air. Stop the leak if there is no risk.

6.2. Personal precautions:

Use personal protective equipment (protective gloves, work clothes and glasses) Provide adequate ventilation. Smoking is prohibited.



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6.3. Methods for cleaning up:

Clean away leakage mechanically; Cover leakage with damp absorbent material (eg: sawdust, sand). After 1 hour, collect in a waste container. Do not close (it develops carbon dioxide). Keep humid and leave for many days in the open air, in a controlled area. Further disposal by incineration in accordance with local laws in force.

6.4. Environment related measures:

Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible. Prevent the spilled material to leak and contact with garbage, canals and sewage. If the product has caused environmental pollution (sewers, waterways, soil or air), inform the relevant authorities.

7. HANDLING AND STORAGE

7.1. Usage:

Avoid contact with eyes and skin. Wear appropriate personal protective equipment. Avoid breathing of vapors. While using this product do not eat, drink or smoke. Ensure good ventilation. Keep in original container, tightly close the container used. Do not burn the product container.

7.2. Storage:

Store in accordance with local regulations. Store away from heat sources and foodstuffs, beverages and food. Keep container tightly closed. Store in a cool, dry place. (between +5°C +25°C)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Ensure there is sufficient ventilation of the area.

Respiration protection

Respiration protection must be applied in poorly ventilated rooms. In case of long term staying in such rooms, the compressed air respiration mask should be applied.

Skin Protection

Glove made of polyethylene or butyl rubber gloves.



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Eyes protection

Use the protective glasses.

Ingestion

Using the product you should not eat, not drink, no smoke. Wash your hands and face every time after the work with chemical substances.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance : Honey color

Odour : Characteristic smell

Viscosity : 6500 – 8000 cps

Important health, safety and environmental information

Flash point temperature: < 0 C

Auto flammability : >350 C

Specific gravity : Approx. 1.1 g/cm³

Water solubility : Not soluble. Reacts with water slowly during hardening, incommensurable quantities of CO₂

10. STABILITY AND REACTIVITY

Conditions to be avoided

Stable in normal storing conditions.

Substances to be avoided

Strongly reacts with water and substances which include unbounded atom of hydrogen.

Dangerous decomposition products

None Known

11. TOXICOLOGICAL INFORMATION**Homologues and Isomers Diphenylmethane diisocyanate**

Acute toxicity: Short term oral toxicity. LD50 = 5000 mg/kg(rat)

Skin contact : LD50 = 5000 mg/kg(rat)

Inhalation : LC50 > 0.49 ml/l (rat – 4-hours inhalation)

Irritating action

Irritates eyes. Contact with eyes may cause cornea damage.

Allergies

Prolonged contact with skin may cause an allergic reaction. Prolonged toxicity close to acute and chronic. Vapours inspiration may result in irritation of respiratory system mucous membranes causing cough, breathing difficulties, and headache. Symptoms may appear with delay. Big product quantity may cause sensitization by inhalation. Skin contact causes acute burn.

12. ECOLOGICAL INFORMATION

Biodegradation	Not
Chemical degradation	Not
Bioaccumulation	Not
Agility	Not
Toxicity influence on organisms	Not
Toxicity in water	Not

13. DISPOSAL CONSIDERATIONS

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal. Cured foam may be disposed of as normal waste. Liquid loading should never be poured into drains, sewers or waterway systems. Do not puncture. Completely empty container may be disposed of as normal iron waste. The must not by punctured or burned even after use. Keep out of reach of children even when empty.



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14. TRANSPORT INFORMATION

14.1. Road /Rail (ADR/RID):

Not subject to ADR/RID

14.2. Sea Transport (IMDG):

Not subject to IMDG

14.3. Air Transport (IATA):

Not subject to IATA

15. REGULATORY INFORMATION**15.1. Labeling: Irritating****15.2. National Legislation/Regulations:**

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) countries, reflecting the different compliance requirements.

16. OTHER INFORMATION**SDS DISTRIBUTION**

: The information in this document should be made available to all who may handle the product.

DISCLAIMER

: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
