



1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME : D800 PU Foam
USE : Industrials.
PRODUCT TYPE : One Component Polyurethane Foam
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 Distinguish of chemical: Flammable.

Danger of Physical: No information.

Danger of Health :

- **Way of Exposure** : Skin , eyes, mouth and respiration irritating.
- Local effect skin, eyes, mucous membrane irritate.
- **Effect of overexposure short- term** : Have a headache , feel nauseated , dizzy and feel drowsiness.
- **Effect of overexposure long- term** : Contact with skin get feel dermatitis.
Evaporation of volatile have to a central nervous. May causes damage to organs through prolonged or repeated exposure)

2.2 Danger of Symbol :

Signal Word	Danger
(Pictogram)	
(Hazard Code)	(Hazard Statement)
F+	Extremely flammable
Xn	Harmful
R 20	Harmful by inhalation
R 36/37/38	Irritating to eyes, respiratory system and skin
R 42/43	May causes sensitization by inhalation and skin contact

Remark :

** Not can regard specific all danger of organ and contact chemical.

Caution / Danger Protective.

Ventilation:

Institute in well ventilated.

Respiratory Protection Type :

Wear of Mask filter chemical especially Gas type NPF400gas but stay in Poor ventilation wear respirator type air tank NPF 2000 standard.

Hand Protection:

Wear of gloves made by nitrite.

Eyes protection :

Wear safety glasses.



Other Protection :

Full protection clothing and safety shoes.

Attention :

Aerosol container is pressurized and storing temperature cannot exceed +50 C. The fresh foam sticks in skin and other surface easily.

Exposed places :

Eyes, Skin, Ingestion, inhalation

Main exposure :

Agent irritating skin, eyes and mucous membrane

Symptoms related to product use:

Inhalation:

Vaper may irritate nose and upper respiratory system

Contact with Skin:

May cause local irritation, reddening, swelling

Contact with Eyes:

May irritate eyes. For its adhesive feature, the foam contact with eyes may cause their physical damage.

Ingestion:

May cause irritation of mucous membranes in oral cavity and digestive system. The medical condition, That may deteriorate through the contact with product : non known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	C.A.S No.	% by Wt
Diphenylmethane Diisocyanate	9016-87-9	20 - 25
Diphenylmethane-4,4-diisocyanate	101-68-8	15 – 20
Polypropylene Triol	25791-96-2	20 – 30
Tris(2-Chloroisopropyl)phosphate	13674-84-5	15 – 20
Propane	74-89-6	5 – 10
Butane	106-97-8	5 – 10
Dimethyl ether	115-10-6	5 --10

4. FIRST AID MEASURES

SKIN: Remove the foam using cloth. Remove dirty cloth. Remove residues of not hardened foam using delicate solvent like ethanol (Avoid contact with eyes) Hardened foam may be removed by washing using soap and large water quantity. If irritation develops, you will apply delicate cream.

EYES: Bath eyes immediately with a lot of water for at least 15 minutes. Contact doctor immediately.

INHALATION: Transfer patient out to the fresh air place, If necessary, apply artificial respiration.

INGESTION : Do not cause vomiting. Rinse mouth. If patient is sleepy or unconscious do not apply oral agents. In the other case serve a glass of water to drink. Provide patient with warm conditions and place him on the left side with his head lying down. Contact doctor immediately.

5. FIRE FIGHTING MEASURES

Extinguishing Media

CO₂, Dry chemical foam, normal foam, water spray, if a large quantity was used.(Water contamination is a source of CO₂.)

Special fire hazard when foam is exposed during the fire

Evaporated product (gas) is heavier than air. It may remain on the ground, or may be transferred through the ventilation ducts. Smokes are dangerous.

Special safety equipment used in case of fire

Fire-fighters should wear self-contained breathing apparatus in addition to protective clothing. Be cautious using extinguishing devices. Apply face guarding and respiratory mask. Do not enter fire zone without respiratory system protective measures

Extinguishing media which must not be used for safety reasons.

No data



Other Instructions

Flammable gases. Escaping gases migrate down. Hardened foam is an organic matter and will burn in the presence of sufficient quantity of hot, Oxygen and firing.

6. ACCIDENTAL RELEASE MEASURES

Personal precaution measures

Apply the face protection, protective clothes and gloves. Ensure good room ventilation. Recommended using of face guard. Do not smoke cigarettes. Avoid sparking.

Natural environment precaution measures

Dispose empty containers as pressurized aerosol and cured foam material as plastics. Clean out contaminated area. Do not flush or allow the uncured product to get into the sewer system

Cleaning methods

Not hardened foam easily sticks, so remove it carefully. Foam residents remove immediately using clothes and delicate solvent like ethanol. Hardened foam may be removed mechanically and polished.

Others

Exists explosion possibility.

7. HANDLING AND STORAGE

Handling

Do not heat and do not pierce the containers. Do not mix the foam with other chemicals. Container is pressurized and storing temperature cannot exceed +50C. Ensure good room ventilation. Do not smoke cigarettes.

Storage

Store like other pressurized container, away from oxidizing agent, rubber, plastics, aluminum and light metals. Ensure good floor level ventilation. Ideal storage temperature is 5-25 C . Preserve not used product against freezing. Store in vertical position in closed original containers. Keep away from food, drink, and animal food. Keep out of the reach of children.

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.

Eyes protection

Use the protective glasses.

Ingestion

Using the polyurethane foam 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: Dark liquid in pressurized container

Outside: Light yellow foam after dispensing

Odour : Characteristic smell

Important health, safety and environmental information

Flash point temperature: < 0 C

Auto flammability : >350 C

Explosion Limits

Lower : 1.5 %

Upper : 11.0 %

Vapour pressure : In the pressurized container the vapours pressure exceeds 500 kPa. After foam release, the vapours pressure is very low (not declared).

Specific gravity : Approx. 1.2 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. Avoid the storing temperature exceeding 50 C.
Protect against mechanical shocks. Avoid heat and moisture.

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.

14. TRANSPORT INFORMATION**Land transport**

ADR/RID	Class 2/5 F	
Warning board :	Aerosols	UN 1950

According to Chapter 3.4 of ADR the provisions of other Chapters of ADR DO NOT apply to the carriage of the substance.

Sea transport

IMDG : 2	Class 2.1	UN 1950
EmS F-D, S-U		
Technical Name	Aerosols	

Air transport

ICAO/IATA	Class 2.1	UN 1950
Technical Name	Aerosols	Package type III

15. REGULATORY INFORMATION

The product is labelling according to EEC Directives.

Information on warning labels

Letter code of warning symbol and danger indications



Container is pressurized and storing temperature cannot exceed 50 C “ Do not pierce or burn, even after use” “ Keep away from the reach of children” . Contain isocyanated : see information supplied by the manufacturer ‘ Do not spray on a naked flame or any incandescent material.

Diphenylmethane-4,4’ -diisobyanate(MDI) EINECS nr 202-966-0 to 20%; Propane/Butane EINECS nr 200-827-9;203-448-7 to 15%. Dimethyl ether EINICS nr 204-065-8 to 10%

Ingredients names on warning label:

Phrase(es) R (safety directions):

R 20 harmful by inhalation

R 36/37/38 irritating to eyes, respiratory system and skin

R 42/43 May cause sensitization by inhalation and skin contact

Phrase (es) R (safety principles):

S 16 Keep away from sources of ignition – No smoking

S 23 Do not breathes vapour.

S 26 in case of contact with eyes rinse immediately with plenty of water and seek medical advice

S 36/37/39 Wear suitable protective clothing, gloves and eyes/face protection

S 46 If swallowed, seek medical advice immediately and show this container or label

S 51 Use only in well-ventilated areas.

S 63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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



D800 PU Foam

Safety Data Sheet

only. It should not therefore be construed as guaranteeing any specific property of the product.
