

**SAFETY DATA SHEET
ARBOTHANE 1245****1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

PRODUCT NAME ARBOTHANE 1245
APPLICATION Polyurethane sealant.
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2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|--|-----------|------------|---------|----------------------------|
| DIPHENYLMETHANE-4,4'-DI-ISOCYANATE | 202-966-0 | 101-68-8 | < 1% | Xn;R20 R42/43 Xi;R36/37/38 |
| DISTILLATES (PETROLEUM), HYDROTREATED LIGHT; KEROSENE - UNSPECIFIED | 265-149-8 | 64742-47-8 | 1-5% | Xn;R65 |
| XYLENE | 215-535-7 | 1330-20-7 | 5-10% | R10 Xn;R20/21 Xi;R38 |

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

Polyurethane prepolymers with fillers, and auxiliaries.

4 FIRST-AID MEASURES**GENERAL INFORMATION**

In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately.

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES**EXTINGUISHING MEDIA**

Water spray, fog or mist. Foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES

Use water to keep fire exposed containers cool and disperse vapours.

SPECIFIC HAZARDS

In fire product may form: Toxic gases/vapours/fumes of Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrous gases (NO_x). Hydrogen cyanide (HCN).

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

ARBOTHANE 1245**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Wear appropriate protective clothing. Provide adequate ventilation. Eliminate all sources of ignition.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses.

SPILL CLEAN UP METHODS

Transfer to a container for disposal. Do not close container tightly. Risk of excess pressure build-up. Reaction with water forming carbon dioxide.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Provide good ventilation. Avoid spilling, skin and eye contact. Persons susceptible for allergic reactions should not handle this product.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | LT - ppm | LT - mg/m3 | ST - ppm | ST - mg/m3 |
|------------------------------------|-----|------------|-----------------|-------------|-----------------|
| DIPHENYLMETHANE-4,4'-DI-ISOCYANATE | WEL | | 0.02 mg/m3(Sen) | | 0.07 mg/m3(Sen) |
| XYLENE | WEL | 50 ppm(Sk) | 220 mg/m3(Sk) | 100 ppm(Sk) | 441 mg/m3(Sk) |

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**ENGINEERING MEASURES**

Well-ventilated area.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Not generally required.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Uncured -paste. Cured - rubber.

COLOUR Grey

ODOUR Mild (or faint).

SOLUBILITY Insoluble in water

BOILING POINT (°C) 137

RELATIVE DENSITY @ 20 °c

VISCOSITY Ps

FLASH POINT (°C) 40 - 55

FLAMMABILITY LIMIT - LOWER(%) 1

RELATIVE DENSITY 1.17

VISCOSITY ~ 7,000

VISCOSITY @ 20 °c

AUTO IGNITION 455

TEMPERATURE (°C)

FLAMMABILITY LIMIT - UPPER(%) 8

10 STABILITY AND REACTIVITY

ARBOTHANE 1245**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time. Reacts with water forming carbon dioxide. Danger of receptacles bursting because of pressure build up.

MATERIALS TO AVOID

Strong acids. Strong alkalis. Strong oxidising substances. Alcohols, glycols. Amines.

HAZARDOUS DECOMPOSITION PRODUCTS

None under normal conditions. If heated, vapours/gases hazardous to health (e.g. CO, NOx, HCl, isocyanates) may be formed.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 8700 mg/kg (oral rat)

TOXIC CONC. - LC 50 Diphenylmethane 4, 4' diisocyanate: 0.49 mg/l/4h (inh-rat)

INHALATION

May cause sensitisation by inhalation.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact.

EYE CONTACT

May cause irritation to eyes.

HEALTH WARNINGS

Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system.

12 ECOLOGICAL INFORMATION

LC 50, 96 Hrs, FISH mg/l Not determined.

MOBILITY

The product is insoluble in water.

WATER HAZARD CLASSIFICATION

Water contaminant class 2, water contaminating.

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

Waste is suitable for incineration.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15 REGULATORY INFORMATION**RISK PHRASES**

NC Not classified.

SAFETY PHRASES

P4 Contains isocyanates. See information supplied by the manufacturer.

P13 Safety data sheet available for professional user on request.

EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

ARBOTHANE 1245

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION COMMENTS

Revised sections: 1, 2, 3, 11,

REVISION DATE 21/11/07

REV. NO./REPL. SDS GENERATED 30/11/05

SDS NO. 10273

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

| | |
|-----------|---|
| R10 | Flammable. |
| R20 | Harmful by inhalation. |
| R20/21 | Harmful by inhalation and in contact with skin. |
| R36/37/38 | Irritating to eyes, respiratory system and skin. |
| R38 | Irritating to skin. |
| R42/43 | May cause sensitisation by inhalation and skin contact. |
| R65 | Harmful: may cause lung damage if swallowed. |

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.