

SAFETY DATA SHEET

ARBOTHANE 1245

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME ARBOTHANE 1245
 APPLICATION Polyurethane sealant.
 SUPPLIER Adshead Ratcliffe & Co. Ltd.
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
CALCIUM OXIDE	215-138-9	1305-78-8	1-5%	Xi;R37/38,R41.
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	202-966-0	101-68-8	< 1%	Xn;R20 R42/43 Xi;R36/37/38
SOLVENT NAPHTHA LIGHT AROMATIC		64742-95-6	5-10%	Xn;R65. Xi;R37. N;R51/53. R10,R66.

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

3 HAZARDS IDENTIFICATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause sensitisation by inhalation.
 CLASSIFICATION R42. R52/53.

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

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. If unconscious, place in recovery position and seek medical advice. If breathing stops, provide artificial respiration.

INGESTION

Immediately rinse mouth and drink plenty of water (200-300 ml). Give milk instead of water if readily available. DO NOT induce vomiting. Get medical attention immediately.

SKIN CONTACT

Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

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

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray, foam, dry powder or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES

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

PROTECTIVE MEASURES IN FIRE

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

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear appropriate protective clothing.

ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

ARBOTHANE 1245**SPILL CLEAN UP METHODS**

Collect in containers and seal securely. Possible decontaminant: Water / ethanol or IPA / ammonia solution in 45/50/5 ratio by volume.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Avoid inhalation of vapours. Observe good industrial hygiene practices. Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 5°C and 25°C. Store in a dry, well ventilated place. Do not store near heat sources or expose to high temperatures. Store away from Acids. Oxidising material.

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)

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**ENGINEERING MEASURES**

Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours. Provide adequate ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Use protective gloves made of: Polyvinyl chloride (PVC).

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Paste		
COLOUR	Grey		
SOLUBILITY	Insoluble in water		
RELATIVE DENSITY	1.15 - 1.19 @ 20°C	FLASH POINT (°C)	>55

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid contact with acids and oxidising substances. Heating, moisture, water and amines.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride (HCl). Hydrogen cyanide (HCN). Nitrous gases (NO_x). Sulphur dioxide. Isocyanates.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50	Diphenylmethane 4, 4' diisocyanate: >15, 000 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. May cause respiratory allergy. May cause an asthma-like shortness of breath. Prolonged or repeated over-exposure to high concentrations of vapours may lead to chronic sensitising effects in sensitive individuals.

INGESTION

May cause discomfort if swallowed.

SKIN CONTACT

May cause skin irritation/eczema

ARBOTHANE 1245**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**ECOTOXICITY**

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

MOBILITY

The product is insoluble in water.

13 DISPOSAL CONSIDERATIONS**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).
GENERAL	Not classified for transportation.

15 REGULATORY INFORMATION**LABELLING**

Harmful

CONTAINS

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

RISK PHRASES

R42	May cause sensitisation by inhalation.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S23	Do not breathe vapour/spray.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60	This material and its container must be disposed of as hazardous waste.
P4	Contains isocyanates. See information supplied by the manufacturer.

STATUTORY INSTRUMENTS

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

GUIDANCE NOTES

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

16 OTHER INFORMATION**REVISION COMMENTS**

Revised sections: 2, 3, 8, 15. General review

REVISION DATE 30/11/05

REV. NO./REPL. SDS GENERATED 16/01/03

SDS NO. 10273

ARBOTHANE 1245

RISK PHRASES IN FULL

R10	Flammable.
R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R42/43	May cause sensitisation by inhalation and skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

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.