

# SAFETY DATA SHEET ARBOTHANE 1245

SECTION 1: Identification of	f the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	ARBOTHANE 1245
1.2. Relevant identified use	s of the substance or mixture and uses advised against
Identified uses	Sealant. Adhesive.
1.3. Details of the supplier of	of the safety data sheet
Supplier	Adshead Ratcliffe & Co. Ltd.
	Derby Road, Belper
	Derbyshire.
	DE56 1WJ
	Tel. (+44) 01773 826661
	Fax. (+44) 01773 821215
	sds@arbo.co.uk
1.4. Emergency telephone	number
Emergency telephone	(+44) 01773 826661 (office hours only)
SECTION 2: Hazards identi	fication
2.1. Classification of the sul	ostance or mixture
Classification (EC 1272/200	)8)
Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
2.2. Label elements	
Hazard statements	NC Not Classified
Supplemental label	EUH204 Contains isocyanates. May produce an allergic reaction.
information	EUH210 Safety data sheet available on request.
2.3. Other hazards	
SECTION 3: Composition/ir	nformation on ingredients

3.2. Mixtures

XYLENE	5-10%	
CAS number: 1330-20-7	EC number: 215-535-7	
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315		
Hydrocarbons, C11-C14, n-al 2%	kanes, isoalkanes, cyclics, < 1-5%	
CAS number: —	EC number: 926-141-6	
<b>Classification</b> Asp. Tox. 1 - H304		
ETHYLBENZENE	1-5%	
CAS number: 100-41-4	EC number: 202-849-4	
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304		
The full text for all hazard statements is displayed in Section 16.		
Composition comments	Polyurethane prepolymers with fillers, and auxiliaries.	
SECTION 4: First aid measures		
4.1. Description of 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 affected person to fresh air at once. Get medical attention if symptoms are severe or persist.	
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Get medical attention if any discomfort continues.	
Skin contact	Wipe off excess material with cloth or paper. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.	

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause an asthma-like shortness of breath.
Ingestion	May cause discomfort if swallowed.
Skin contact	Allergic rash.
Eye contact	May cause temporary eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations.		
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.		
Unsuitable extinguishing media	None known.		
5.2. Special hazards arising from the substance or mixture			
Specific hazards	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. No unusual fire or explosion hazards noted.		
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of nitrogen. Hydrogen cyanide (HCN). Isocyanates.		
5.3. Advice for firefighters			
Protective actions during firefighting	Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.		
Special protective equipment for firefighters	Wear self contained breathing apparatus.		
SECTION 6: Accidental release	e measures		
6.1. Personal precautions, protective equipment and emergency procedures			
Personal precautions	Wear appropriate protective clothing. Follow precautions for safe handling described in this safety data sheet.		
6.2. Environmental precaution	<u>s</u>		
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.		
6.3. Methods and material for containment and cleaning up			
Methods for cleaning up	Collect and place in suitable waste disposal containers and seal securely. Do not seal		
	containers tightly. Reaction with water forming carbon dioxide.		
6.4. Reference to other section			
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	ns For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.		
Reference to other sections	ns For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.		
Reference to other sections SECTION 7: Handling and sto	ns For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.		
Reference to other sections SECTION 7: Handling and sto 7.1. Precautions for safe hand	ns For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13. rage lling Avoid inhalation of vapours. Persons suffering from asthma, eczema or skin problems should		
Reference to other sections SECTION 7: Handling and sto 7.1. Precautions for safe hand Usage precautions Advice on general occupational hygiene	<ul> <li>For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.</li> <li>Intege</li> <li>Avoid inhalation of vapours. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.</li> </ul>		
Reference to other sections SECTION 7: Handling and sto 7.1. Precautions for safe hand Usage precautions Advice on general occupational hygiene	<ul> <li>For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.</li> <li>Inage</li> <li>Avoid inhalation of vapours. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.</li> <li>Good personal hygiene procedures should be implemented.</li> </ul>		
Reference to other sections SECTION 7: Handling and sto 7.1. Precautions for safe hand Usage precautions Advice on general occupational hygiene 7.2. Conditions for safe storag	For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13. Image Iling Avoid inhalation of vapours. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. Good personal hygiene procedures should be implemented. e, including any incompatibilities		

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

#### Usage description Gunnable sealant.

### SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

Occupational exposure limits

### **XYLENE**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup> Sk

### **ETHYLBENZENE**

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m<sup>3</sup> Sk WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin.

No DNEL or PNEC values available. Ingredient comments

### XYLENE (CAS: 1330-20-7)

DNEL	Workers - Inhalation; Long term systemic effects: 77 mg/m <sup>3</sup> Workers - Inhalation; Short term systemic effects: 289 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 180 mg/kg/day General population - Inhalation; Long term systemic effects: 14.8 mg/m <sup>3</sup> General population - Inhalation; Short term systemic effects: 174 mg/m <sup>3</sup> General population - Inhalation; Short term local effects: 174 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 108 mg/kg/day General population - Oral; Long term systemic effects: 1.6 mg/kg/day
PNEC	<ul> <li>Fresh water; 0.327 mg/l</li> <li>Marine water; 0.327 mg/l</li> <li>Intermittent release; 0.327 mg/l</li> <li>STP; 6.58 mg/l</li> <li>Sediment (Freshwater); 12.6 mg/kg</li> <li>Sediment (Marinewater); 12.6 mg/kg</li> <li>Soil; 2.31 mg/kg</li> </ul> CALCIUM OXIDE (CAS: 1305-78-8)
DNEL	Workers - Inhalation; Long term local effects: 1 mg/m <sup>3</sup> Workers - Inhalation; Short term local effects: 4 mg/m <sup>3</sup> General population - Inhalation; Long term local effects: 1 mg/m <sup>3</sup> General population - Inhalation; Short term local effects: 4 mg/m <sup>3</sup>
PNEC	<ul> <li>Fresh water; 0.37 mg/l</li> <li>Marine water; 0.24 mg/l</li> <li>Intermittent release; 0.37 mg/l</li> <li>STP; 2.27 mg/l</li> <li>Soil; 817.4 mg/kg</li> </ul>

### CALCIUM DIHYDROXIDE (CAS: 1305-62-0)

DNEL	Workers - Inhalation; Long term local effects: 1 mg/m <sup>3</sup> Workers - Inhalation; Short term local effects: 4 mg/m <sup>3</sup> General population - Inhalation; Long term local effects: 1 mg/m <sup>3</sup> General population - Inhalation; Short term local effects: 4 mg/m <sup>3</sup> - Fresh water; 0.49 mg/l - Marine water; 0.32 mg/l - Intermittent release; 0.49 mg/l - STP; 3 mg/l - Soil; 1080 mg/kg	
8.2. Exposure controls		
Protective equipment		
Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.	
Eye/face protection	Not generally required.	
Hand protection	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC).	
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.	
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.	
SECTION 9: Physical and Ch	emical Properties	
9.1. Information on basic physical and chemical properties		
Appearance	Paste.	
Colour	Grey. Buff.	
Odour	Mild.	
Odour threshold	Not applicable.	
рН	pH (concentrated solution): Not applicable.	

Melting point Not determined. Initial boiling point and range 137°C @ 760 mm Hg Flash point > 40°C CC (Closed cup). **Evaporation rate** Not applicable. **Evaporation factor** Not applicable. Flammability (solid, gas) The product is not subject to classification because its speed of combustion is lower than the limit of the regulation. Upper/lower flammability or Lower flammable/explosive limit: 0.6 % Upper flammable/explosive limit: 8 % explosive limits

Vapour pressure	Not applicable. @ °C	
Vapour density	Not applicable.	
Relative density	1.16 @ 20°C	
Solubility(ies)	Not applicable. @ °C	
Partition coefficient	: Not applicable.	
Auto-ignition temperature	>200°C	
Viscosity	~7000 P @ 20°C	
Explosive properties	Not considered explosive.	
Oxidising properties	Oxidising properties Not applicable. Explosive properties Not applicable.	
9.2. Other information		
Other information	None.	
SECTION 10: Stability and re	activity	
10.1. Reactivity		
Reactivity	Isocyanates react with water to liberate carbon dioxide. Any ingress of moisture into an isocyanate container, whether full or empty, can lead to a pressure build up and subsequent explosion. The following materials may react with the product: Acids. Alkalis. Alcohols, glycols. Amines.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended.	
10.3. Possibility of hazardous reactions		
Possibility of hazardous reactions	Not applicable. Will not polymerise.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid contact with the following materials: Water, moisture.	
10.5. Incompatible materials		
Materials to avoid	Amines. Alcohols, glycols. Strong acids. Strong alkalis.	
10.6. Hazardous decompositi	on products	
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide (HCN). Isocyanates.	
SECTION 11: Toxicological in	nformation	
11.1. Information on toxicolog	jical effects	
Toxicological effects	The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.	
Acute toxicity - dermal		
ATE dermal (mg/kg)	18,333.33	
Acute toxicity - inhalation		

ATE inhalation (gases ppm)	65,217.39
ATE inhalation (vapours mg/l)	733.33
ATE inhalation (dusts/mists mg/l)	100.0
Skin corrosion/irritation Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation Serious eye damage/irritation	Based on available data the classification criteria are not met.
Respiratory sensitisation Respiratory sensitisation	The product contains a small amount of a sensitising substance which may cause an allergic reaction in sensitive individuals.
Skin sensitisation Skin sensitisation	The product contains a small amount of a sensitising substance which may cause an allergic reaction in sensitive individuals.
Germ cell mutagenicity Genotoxicity - in vitro	Does not contain any substances known to be mutagenic.
Carcinogenicity Carcinogenicity	Does not contain any substances known to be carcinogenic.
Reproductive toxicity Reproductive toxicity - fertility	Does not contain any substances known to be toxic to reproduction.
Inhalation	Prolonged or repeated over-exposure to high concentrations of vapours may lead to chronic sensitising effects in sensitive individuals. May cause an asthma-like shortness of breath.
Ingestion	May cause discomfort if swallowed.
Skin contact	Product may cause an allergic reaction in hypersensitive persons.
Eye contact	May cause temporary eye irritation.
Acute and chronic health hazards	The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation.
Medical considerations	Chronic respiratory and obstructive airway diseases. Skin disorders and allergies.
Toxicological information on in	gredients.

Toxicological information on ingredients.

### XYLENE

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	3,523.0
Species	Rat
ATE oral (mg/kg)	3,523.0
Acute toxicity - dermal	
ATE dermal (mg/kg)	1,100.0
Acute toxicity - inhalation	

	Acute toxicity inhalati (LC₅₀ gases ppmV)	on 5,000.0	
	Species	Rat	
	ATE inhalation (gases ppm)	<b>s</b> 5,000.0	
	Skin corrosion/irritatio	<u>on</u>	
	Animal data	Primary dermal irritation index: 2.21 Moderately irritating.	
	Serious eye damage/irritation		
	Serious eye damage/irritation	Moderately irritating.	
SECTION 12: Ecological Information			
Ecotoxicity	ity Not regarded as dangerous for the environment. The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/ EC and classified for ecotoxicological hazards accordingly.		
12.1. Toxic	ity		
Toxicity	Th	ere are no data for the product.	
Ecological information on ingredients.			
XYLENE			
	Acute toxicity - fish LC <sub>80</sub> , 96 hours: 2.6 - 4.2 mg/l, Onchorhynchus mykiss (Rainbow trout)		
	Acute toxicity - aquat invertebrates	c IC₂₀, 24 hours: 2.2 mg/l, Daphnia magna	
	Acute toxicity - aquat plants	c EC <sub>80</sub> , 48 hours: 2.2 mg/l, Selenastrum capricornutum	
12.2. Persistence and degradability			
Persistence	<b>Persistence and degradability</b> There are no data on the degradability of this product.		
12.3. Bioac	cumulative potential		
Bioaccumu	Bioaccumulative potential No data available on bioaccumulation.		
Partition co	artition coefficient : Not applicable.		
Ecological information on ingredients.			
		XYLENE	
	Bioaccumulative pote	ntial BCF: 29,	
	Partition coefficient	log Pow: 3.2	
12.4. Mobil	ity in soil		
Mobility	Th	e product is insoluble in water.	
12.5. Resul	ts of PBT and vPvB as	sessment	
	<b>Results of PBT and vPvB</b> This product does not contain any substances classified as PBT or vPvB. <b>assessment</b>		

### 12.6. Other adverse effects

Other adverse effects	None known.	
SECTION 13: Disposal considerations		
13.1. Waste treatment meth	lods	
General information	When handling waste, the safety precautions applying to handling of the product should be considered.	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.	
Waste class	Recommended EWC Code 08 04 10	
SECTION 14: Transport info	ormation	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).	
14.1. UN number		
No information required.		
14.2. UN proper shipping name		
No information required.		

### 14.3. Transport hazard class(es)

No information required.

### 14.4. Packing group

No information required.

#### 14.5. Environmental hazards

### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

No information required.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

### Transport in bulk according to No information required. Annex II of MARPOL 73/78 and the IBC Code

### SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation	Regulation (EC) 1907/2006 REACH (as amended).
	Regulation (EC) 1272/2008 CLP (as amended).

### Guidance Workplace Exposure Limits EH40.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

### Revision comments

General review

Revision date	15/05/2017
Revision	4
Supersedes date	10/05/2017
SDS number	10273
Hazard statements in full	<ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H226 Flammable liquid and vapour.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H312 Harmful in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.</li> </ul>

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.