



SAFETY DATA SHEET ARBO CLEANER No. 17

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name ARBO CLEANER No. 17

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Cleaning agent. Solvent

1.3. Details of the supplier 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 identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 STOT RE 2 - H373 Asp. Tox. 1 - H304

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312+H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

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Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261 Avoid breathing vapours.</p> <p>P280 Wear protective gloves.</p> <p>P304+P312 IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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Contains XYLENE, ETHYLBENZENE

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

XYLENE	60-100%
CAS number: 1330-20-7	EC number: 215-535-7

Classification

Flam. Liq. 3 - H226
 Acute Tox. 4 - H312
 Acute Tox. 4 - H332
 Skin Irrit. 2 - H315

ETHYLBENZENE	10-30%
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 Blend of xylene isomers (o, m, p), ethylbenzene.

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 any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. DO NOT induce vomiting. Get medical attention immediately. Danger of aspiration.
Skin contact	Remove contaminated clothing immediately and wash skin 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

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Inhalation	Upper respiratory irritation. Nausea, vomiting.
Ingestion	May cause stomach pain or vomiting. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Skin contact	Skin irritation.
Eye contact	May irritate eyes.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder. Water spray, fog or mist.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Flammable liquid and vapour. When heated and in case of fire, toxic vapours/gases may be formed. Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
Hazardous combustion products	Oxides of carbon. Hydrocarbons.

5.3. Advice for firefighters

Protective actions during firefighting	Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear appropriate protective clothing. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. Ventilate area to dispel any residual vapours.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.
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6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Usage precautions	Keep away from heat, sparks and open flame. Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Contaminated rags and cloths must be put in fireproof containers for disposal.
Advice on general occupational hygiene	Good personal hygiene procedures should be implemented. When using do not eat, drink or smoke. Wash promptly with soap and water if skin becomes contaminated. Provide eyewash station.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place.
Storage class	Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
Usage description	Wipe-on, wipe-off application.

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/m³

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

Sk

ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

Ingredient comments	WEL = Workplace Exposure Limits DNEL and PNEC values given for xylene.
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DNEL	Industry - Inhalation; Short term : 442 mg/m ³ Industry - Inhalation; Long term : 180 mg/kg/day Industry - Dermal; Long term : 3182 mg/kg/day
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PNEC	- Fresh water; Intermittent release 0.327 mg/l - Marine water; 0.327 mg/l - Sediment (Freshwater); 12.6 mg/kg - Sediment (Marinewater); 12.6 mg/kg - Soil; 2.31 mg/kg - STP; 6.58 mg/l
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XYLENE (CAS: 1330-20-7)

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DNEL	<p>Workers - Inhalation; Long term systemic effects: 77 mg/m³</p> <p>Workers - Inhalation; Short term systemic effects: 289 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 180 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 14.8 mg/m³</p> <p>General population - Inhalation; Short term systemic effects: 174 mg/m³</p> <p>General population - Inhalation; Short term local effects: 174 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 108 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 1.6 mg/kg/day</p>
PNEC	<p>- Fresh water; 0.327 mg/l</p> <p>- Marine water; 0.327 mg/l</p> <p>- Intermittent release; 0.327 mg/l</p> <p>- STP; 6.58 mg/l</p> <p>- Sediment (Freshwater); 12.6 mg/kg</p> <p>- Sediment (Marinewater); 12.6 mg/kg</p> <p>- Soil; 2.31 mg/kg</p>

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of vapours.

Eye/face protection

Wear eye protection. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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 alcohol (PVA). Viton rubber (fluoro rubber). To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Provide eyewash station.

Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Aromatic hydrocarbons.
Odour threshold	Xylene isomers: 0.324 - 0.851 ppm
pH	Not applicable.
Melting point	-39.3°C

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Initial boiling point and range	137-140°C @ 760 mm Hg
Flash point	27-32°C CC (Closed cup).
Evaporation rate	0.77 (Butyl acetate = 1)
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.8 g/100 g Upper flammable/explosive limit: 6.7 g/100 g
Vapour pressure	0.82 kPa @ 20°C
Vapour density	3.70
Relative density	0.86 @ 20°C
Solubility(ies)	0.0146-0.0191 g/100 g water @ 25°C
Partition coefficient	log Pow: 3.2
Auto-ignition temperature	488°C
Decomposition Temperature	Not available.
Viscosity	0.84 cSt @ 40°C
Explosive properties	May form explosive mixtures with air.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

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 known. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Aldehydes Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 3523 mg/kg, Oral, Rat

Acute toxicity - dermal

ATE dermal (mg/kg) 1,294.12

Acute toxicity - inhalation

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Notes (inhalation LC₅₀)	NOAEC Mixed xylenes: >=3515 mg/m ³ , Inhalation, Rat
ATE inhalation (gases ppm)	4,918.03
ATE inhalation (vapours mg/l)	73.33
ATE inhalation (dusts/mists mg/l)	10.0
<u>Skin corrosion/irritation</u>	
Animal data	Irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Based on available data the classification criteria are not met.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Does not contain any substances known to be mutagenic.
<u>Carcinogenicity</u>	
Carcinogenicity	Does not contain any substances known to be carcinogenic.
<u>Reproductive toxicity</u>	
Reproductive toxicity - development	Does not contain any substances known to be toxic to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure if inhaled.
<u>Aspiration hazard</u>	
Aspiration hazard	Kinematic viscosity ≤ 20.5 mm ² /s. The fluid can enter the lungs and cause damage.
General information	
	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	
	Harmful by inhalation. Solvent vapours are hazardous and may cause nausea, fatigue, dizziness and headaches.
Ingestion	
	May cause stomach pain or vomiting. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
Skin contact	
	Harmful in contact with skin. Irritating to skin.
Eye contact	
	May cause irritation to eyes.

SECTION 12: Ecological Information

12.1. Toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 8.05 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >3.4 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 2.2 mg/l, Fish

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12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating. BCF: 29,

Partition coefficient log Pow: 3.2

12.4. Mobility in soil

Mobility Slightly soluble in water. Product will float on the surface of water. In soil the product has only slight mobility and will partially evaporate.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Allow small quantities to evaporate to the atmosphere in a safe, open place. Absorb in vermiculite, dry sand or earth and place into containers.

Waste class HP3 Flammable HP4 Irritant HP5 STOT / Aspiration toxicity HP6 Acute toxicity
Recommended EWC Code 14 06 03*

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1307

UN No. (IMDG) 1307

UN No. (ICAO) 1307

UN No. (ADN) 1307

14.2. UN proper shipping name

Proper shipping name (ADR/RID) XYLENES

Proper shipping name (IMDG) XYLENES

Proper shipping name (ICAO) XYLENES

Proper shipping name (ADN) XYLENES

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

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ICAO class/division 3

ADN class 3

Transport labels**14.4. Packing group**

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-D

ADR transport category 3

Emergency Action Code 3Y

Hazard Identification Number (ADR/RID) 30

Tunnel restriction code (D/E)

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

Transport in bulk according to Not applicable.

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 05/05/2017

Revision 1

Supersedes date 01/06/2015

SDS number 10274

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Hazard statements in full

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.

H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

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.