

**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 Solvent Cleaning agent.

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

(+44) 01773 826661 (office hours only)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xn;R20/21. Xi;R38. R10.

Human health

The liquid may irritate the skin. Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain.

Environment

The product is not expected to be hazardous to the environment.

Physical and Chemical Hazards

The product contains substances classified as flammable.

2.2. Label elements

Contains XYLENE

Labelling



Harmful

Risk Phrases

R10	Flammable.
R38	Irritating to skin.
R20/21	Harmful by inhalation and in contact with skin.

Safety Phrases

S36/37	Wear suitable protective clothing and gloves.
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

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XYLENE		60-100%
CAS-No.: 1330-20-7	EC No.: 215-535-7	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315	Classification (67/548/EEC) R10 Xn;R20/21 Xi;R38	
ETHYLBENZENE		10-30%
CAS-No.: 100-41-4	EC No.: 202-849-4	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 4 - H332	Classification (67/548/EEC) F;R11 Xn;R20	

The Full Text for all R-Phrases and Hazard Statements are 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 the exposed person to fresh air at once. Get medical attention if any discomfort continues.

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

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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

Inhalation.

Upper respiratory irritation. Nausea, vomiting.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Skin irritation.

Eye contact

May cause severe irritation to eyes.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

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

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

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Unusual Fire & Explosion Hazards

Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

Specific hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. In case of fire, toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrocarbons.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Use water SPRAY only to cool containers! Do not put water on leaked material. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. 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.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Provide good ventilation. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices. Contaminated rags and cloths must be put in fireproof containers for disposal.

7.2. Conditions for safe storage, including any incompatibilities

Flammable/combustible - Keep away from oxidisers, 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)

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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ETHYLBENZENE	WEL	100 ppm(Sk)	441 mg/m ³ (Sk)	125 ppm(Sk)	552 mg/m ³ (Sk)	
XYLENE	WEL	50 ppm(Sk)	220 mg/m ³ (Sk)	100 ppm(Sk)	441 mg/m ³ (Sk)	

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits DNEL and PNEC values given for xylene.

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

PNEC

Freshwater	Intermittent release	0.327	mg/l
Marinewater	0.327	mg/l	
Sediment (Freshwater)	12.6	mg/kg	

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Sediment (Marinewater)	12.6	mg/kg
Soil	2.31	mg/kg
STP	6.58	mg/l

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash station.

Engineering measures

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

Respiratory equipment

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

Hand protection

Use protective gloves made of: Polyvinyl alcohol (PVA). Viton rubber (fluor rubber). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear approved safety goggles.

Hygiene measures

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

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.
Solubility	Insoluble in water
Initial boiling point and boiling range	137-140 @ 760mm Hg
Melting point (°C)	-39.3
Relative density	0.86 @ 20°C
Vapour density (air=1)	3.70
Vapour pressure	0.82 kPa @ 20°C
Evaporation rate	0.77 (Butyl acetate = 1)
pH-Value, Conc. Solution	Not applicable
Viscosity	0.0084 cm ² /s @ 40°C
Solubility Value (G/100G H ₂ O@20°C)	0.0146-0.0191
Decomposition temperature (°C)	No information available
Odour Threshold, Lower	Xylene isomers: 0.324 - 0.851 ppm
Flash point	27 - 32 CC (Closed Cup)
Auto Ignition Temperature (°C)	488
Flammability Limit - Lower(%)	0.8
Flammability Limit - Upper(%)	6.7
Partition Coefficient (N-Octanol/Water)	log Pow 3.2

Explosive properties: May form explosive mixtures with air.

Oxidising properties

Does not meet the criteria for oxidising.

9.2. Other information

Mol. Weight 106.16

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not known.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

10.6. 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

Toxic Dose 1 - LD 50	3523 mg/kg (oral rat)
Toxic Dose 2 - LD 50	>5000 mg/kg (dermal rabbit)
Toxic Conc. - LC 50	5000 ppm/4h (inh rat)

Skin Corrosion/Irritation:

Irritating.

Serious eye damage/irritation:

Causes eye irritation.

Respiratory or skin sensitisation:

Not sensitising.

Germ cell mutagenicity:

Does not contain any substances known to be mutagenic.

Carcinogenicity:

Does not contain any substances known to be carcinogenic.

Reproductive Toxicity:

Does not contain any substances known to be toxic to reproduction.

Aspiration hazard:

Viscosity

Kinematic viscosity <= 20.5 mm²/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.

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Eye contact

May cause irritation to eyes. Will not injure eye tissue.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute Toxicity - Fish

LC50 96 hours 4.2 mg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 2.93 - 4.4 mg/l Daphnia magna

IC 50, 72 Hrs, Algae, mg/l 2.2

12.2. Persistence and degradability

Degradability

Product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Bioaccumulation factor

BCF 29

Partition coefficient log Pow 3.2

12.4. Mobility in soil

Mobility:

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

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods

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

Waste Class

H3B - Flammable

H4 - Irritant

H5 - Harmful

Recommended EWC Code 14 06 03*

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 1307

UN No. (IMDG) 1307

UN No. (ICAO) 1307

14.2. UN proper shipping name

Proper Shipping Name XYLENES

14.3. Transport hazard class(es)

ADR/RID/ADN Class 3

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ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	



14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG 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
Emergency Action Code	3Y
Hazard No. (ADR)	30 Flammable liquid (flash-point between 23°C and 60°C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 60°C, heated to a temperature equal to or above its flash-point, or a heating liquid.
Tunnel Restriction Code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Cat Y

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Chemicals (Hazard Information & Packaging) Regulations.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) 1907/2006 REACH. Regulation (EC) 1272/2008 CLP.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

New format as required by REACH Annex II

Revision Date 11/09/12

Supersedes date 09/07/08

SDS No. 10274

Risk Phrases In Full

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R20	Harmful by inhalation.
R11	Highly flammable
R38	Irritating to skin.

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Hazard Statements In Full

H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H312	Harmful in contact with skin.
H225	Highly flammable liquid and vapour.

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 a 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.