



SAFETY DATA SHEET ARBO PVC SOLVENT CLEANER

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

1.1. Product identifier

Product name ARBO PVC SOLVENT CLEANER

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

Identified uses Cleaner for PVCu windows and doors.

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

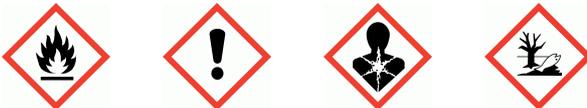
2.1. Classification of the substance or mixture

Classification

Physical hazards Flam. Liq. 2 - H225
Health hazards Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304
Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

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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>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p>
Contains	NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	30-60%
CAS number: 64742-49-0 EC number: 265-151-9	
Classification Flam. Liq. 1 - H224 Skin Irrit. 2 - H315 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
BUTYL ACETATE -norm	10-30%
CAS number: 123-86-4 EC number: 204-658-1	
Classification Flam. Liq. 3 - H226 STOT SE 3 - H336	
ETHANOL	10-30%
CAS number: 64-17-5 EC number: 200-578-6	
Classification Flam. Liq. 2 - H225	
NAPHTHA (PETROLEUM), HYDRODESULPHURISED HEAVY	5-10%
CAS number: 64742-82-1 EC number: 265-185-4	
Classification Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	

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2-BUTOXYETHANOL	5-10%
CAS number: 111-76-2	EC number: 203-905-0
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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. 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	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	May cause stomach pain or vomiting. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Skin contact	May cause irritation.
Eye contact	May cause temporary eye irritation. Prolonged contact may cause redness and/or tearing.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	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	The product is flammable. Closed containers can burst violently when heated, due to excess pressure build-up. 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	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Hydrocarbons.

5.3. Advice for firefighters

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Protective actions during firefighting	Cool containers exposed to flames with water until well after the fire is out. 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. Avoid inhalation of vapours and contact with skin and eyes. Eliminate all sources of ignition. Ventilate area to dispel any residual vapours.
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6.2. Environmental precautions

Environmental precautions	Avoid 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 small quantities with paper towels and evaporate in a safe place. Large Spillages: Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely.
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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. See Section 12 for additional information on ecological hazards. For waste disposal, see section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Keep away from heat, sparks and open flame. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.
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Advice on general occupational hygiene	Do not eat, drink or smoke when using this product.
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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.
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Storage class	Flammable liquid storage.
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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Usage description	Wipe-on, wipe-off application.
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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

BUTYL ACETATE -norm

Long-term exposure limit (8-hour TWA): WEL 150 ppm 724 mg/m³

Short-term exposure limit (15-minute): WEL 200 ppm 966 mg/m³

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

2-BUTOXYETHANOL

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Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk)

Short-term exposure limit (15-minute): WEL 50 ppm(Sk)

WEL = Workplace Exposure Limit

BUTYL ACETATE -norm (CAS: 123-86-4)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 480 mg/m³</p> <p>Workers - Inhalation; Short term systemic effects: 960 mg/m³</p> <p>Workers - Inhalation; Long term local effects: 480 mg/m³</p> <p>Workers - Inhalation; Short term local effects: 960 mg/m³</p> <p>General population - Inhalation; Long term systemic effects: 102.34 mg/m³</p> <p>General population - Inhalation; Short term systemic effects: 859.7 mg/m³</p> <p>General population - Inhalation; Long term local effects: 102.34 mg/m³</p> <p>General population - Inhalation; Short term local effects: 859.7 mg/m³</p>
PNEC	<p>- Fresh water; 0.18 mg/l</p> <p>- Marine water; 0.018 mg/l</p> <p>- Intermittent release; 0.36 mg/l</p> <p>- STP; 35.6 mg/l</p> <p>- Sediment (Freshwater); 0.981 mg/kg</p> <p>- Sediment (Marinewater); 0.0981 mg/kg</p> <p>- Soil; 0.0903 mg/kg</p>

ETHANOL (CAS: 64-17-5)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 950 mg/m³</p> <p>Workers - Inhalation; Short term systemic effects: 1900 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 343 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 114 mg/m³</p> <p>General population - Inhalation; Short term systemic effects: 950 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 206 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 87 mg/kg/day</p>
PNEC	<p>- Fresh water; 0.96 mg/l</p> <p>- Marine water; 0.79 mg/l</p> <p>- Intermittent release; 2.75 mg/l</p> <p>- STP; 580 mg/l</p> <p>- Sediment (Freshwater); 3.6 mg/kg</p> <p>- Sediment (Marinewater); 2.9 mg/kg</p> <p>- Soil; 0.63 mg/kg</p> <p>- Oral (food); 0.72 g/kg</p>

2-BUTOXYETHANOL (CAS: 111-76-2)

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DNEL	Workers - Inhalation; Long term systemic effects: 98 mg/m ³
	Workers - Inhalation; Short term systemic effects: 1091 mg/m ³
	Workers - Inhalation; Short term local effects: 246 mg/m ³
	Workers - Dermal; Long term systemic effects: 125 mg/kg/day
	Workers - Dermal; Short term systemic effects: 89 mg/kg/day
	General population - Inhalation; Long term systemic effects: 59 mg/m ³
	General population - Inhalation; Short term systemic effects: 426 mg/m ³
	General population - Inhalation; Long term local effects: 147 mg/m ³
	General population - Dermal; Long term systemic effects: 75 mg/kg/day
	General population - Dermal; Short term systemic effects: 89 mg/kg/day
	General population - Oral; Long term systemic effects: 6.3 mg/kg/day
	General population - Oral; Short term systemic effects: 26.7 mg/kg/day
	PNEC
- Marine water; 0.88 mg/l	
- Intermittent release; 9.1 mg/l	
- STP; 463 mg/l	
- Sediment (Freshwater); 34.6 mg/kg	
- Sediment (Marinewater); 3.46 mg/kg	
- Soil; 2.33 mg/kg	
- Oral (food); 0.02 g/kg	

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Wear approved safety goggles.

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.

Other skin and body protection

Provide eyewash station.

Hygiene measures

Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.

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	Hydrocarbons.
Odour threshold	Not applicable.

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pH	pH (concentrated solution): ~ 7
Melting point	Not applicable.
Initial boiling point and range	78.4 - 115.4°C @ 760 mm Hg
Flash point	12°C Not specified.
Evaporation rate	No specific test data are available.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 3.3 % Upper flammable/explosive limit: 19 %
Vapour pressure	5.8 kPa @ 20°C
Vapour density	No data available.
Relative density	0.8 @ 20°C
Solubility(ies)	Slightly soluble in water. Soluble in the following materials: Acetone.
Partition coefficient	Not applicable.
Auto-ignition temperature	> 230°C
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Heating may generate vapours which may form explosive mixtures with air.
Oxidising properties	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

9.2. Other information

Other information Not available.

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 Under normal conditions of storage and use, no hazardous reactions will occur.

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. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Toxicological effects	There are no data available on this product.
<u>Acute toxicity - oral</u>	
ATE oral (mg/kg)	7,142.86
<u>Acute toxicity - dermal</u>	
ATE dermal (mg/kg)	15,714.29
<u>Acute toxicity - inhalation</u>	
ATE inhalation (gases ppm)	64,285.71
ATE inhalation (vapours mg/l)	157.14
ATE inhalation (dusts/mists mg/l)	21.43
<u>Skin corrosion/irritation</u>	
Animal data	Irritating. Calculated
<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	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Based on available data the classification criteria are not met.
<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	Based on constituents classified as a specific target organ toxicant after single exposure. May cause drowsiness and dizziness.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
<u>Aspiration hazard</u>	
Aspiration hazard	The product is classified as having an aspiration hazard.
<u>Inhalation</u>	
Inhalation	May cause drowsiness or dizziness. Vapours may irritate throat and respiratory system and cause coughing.
<u>Ingestion</u>	
Ingestion	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<u>Skin contact</u>	
Skin contact	Prolonged and frequent contact may cause redness and irritation.
<u>Eye contact</u>	
Eye contact	May cause temporary eye irritation. Prolonged contact may cause redness and/or tearing.

SECTION 12: Ecological Information

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Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity There are no data for the product.

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility The product is partly soluble in water and may spread in the aquatic environment. Readily absorbed into soil.

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 Not 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 Absorb in vermiculite, dry sand or earth and place into containers. Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility.

Waste class HP3 Flammable HP4 Irritant HP5 STOT / Aspiration toxicity HP14 Ecotoxic Recommended EWC Code 14 06 03*

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1993

UN No. (IMDG) 1993

UN No. (ICAO) 1993

UN No. (ADN) 1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID) FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, BUTYL ACETATE)

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, BUTYL ACETATE)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, BUTYL ACETATE)

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Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, BUTYL ACETATE)

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	2
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 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. Regulation (EC) 1272/2008 CLP.
Guidance	Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

Revision comments	Classification and labelling according to CLP Regulations.
Revision date	01/09/2015
Supersedes date	22/11/2012
SDS number	10022
Hazard statements in full	H224 Extremely flammable liquid and vapour. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.

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.