



SAFETY DATA SHEET ARBO PRIMER 2650

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

1.1. Product identifier

Product name ARBO PRIMER 2650

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

Identified uses Primer for use on porous substrates prior to the application of specified ARBO products.

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. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Elicitation - EUH208 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
EUH208 Contains METHYL METHACRYLATE, BUTYL METHACRYLATE -norm. May produce an allergic reaction.

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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>P280 Wear eye protection.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</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 TOLUENE, BUTANOL-norm

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TOLUENE	60-100%
CAS number: 108-88-3	EC number: 203-625-9
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	
BUTANOL-norm	1-5%
CAS number: 71-36-3	EC number: 200-751-6
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336	
BUTYL METHACRYLATE -norm	<1%
CAS number: 97-88-1	EC number: 202-615-1
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335	

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METHYL METHACRYLATE	<1%
CAS number: 80-62-6	EC number: 201-297-1
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335	

The full text for all hazard statements is displayed in Section 16.

Composition comments Polyacrylate and methoxysilanes, in organic solvent.

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.
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	Vapours may cause drowsiness and dizziness. In case of overexposure, organic solvents may cause depression of the central nervous system causing dizziness and intoxication.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Skin irritation. Allergic rash.
Eye contact	May cause serious eye damage.

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	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
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 highly flammable. Heating may generate flammable vapours.
Hazardous combustion products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

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Special protective equipment for firefighters Wear self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear appropriate protective clothing. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours and contact with skin and eyes. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

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 Absorb small quantities with paper towels and evaporate in a safe place. Absorb in vermiculite, dry sand or earth and place into containers.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Persons susceptible to allergic reactions should not handle this product. Contaminated rags and cloths must be put in fireproof containers for disposal. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash promptly if skin becomes contaminated.

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 Paintable primer.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

TOLUENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 191 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 384 mg/m³(Sk)

BUTANOL-norm

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

Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 154 mg/m³(Sk)

METHYL METHACRYLATE

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Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m³

WEL = Workplace Exposure Limit

TOLUENE (CAS: 108-88-3)

DNEL

Workers - Inhalation; Long term systemic effects: 192 mg/m³
 Workers - Inhalation; Short term systemic effects: 384 mg/m³
 Workers - Inhalation; Long term local effects: 192 mg/m³
 Workers - Inhalation; Short term systemic effects: 384 mg/m³
 Workers - Dermal; Long term systemic effects: 384 mg/kg/day
 General population - Inhalation; Long term systemic effects: 56.5 mg/m³
 General population - Inhalation; Short term systemic effects: 226 mg/m³
 General population - Inhalation; Long term local effects: 56.5 mg/m³
 General population - Inhalation; Short term local effects: 226 mg/m³
 General population - Dermal; Long term systemic effects: 226 mg/kg/day
 General population - Oral; Long term systemic effects: 8.13 mg/kg/day

PNEC

- Fresh water; 0.68 mg/l
 - Marine water; 0.68 mg/l
 - Intermittent release; 0.68 mg/l
 - STP; 13.61 mg/l
 - Sediment (Freshwater); 16.39 mg/kg
 - Sediment (Marinewater); 16.39 mg/kg
 - Soil; 2.89 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

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

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: Viton rubber (fluoro rubber). Gloves suitable for up to 60 minutes use.

Other skin and body protection

Provide eyewash station.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Use of ABEK mask filter during prolonged exposure advised.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.

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Odour	Strong.
Odour threshold	Toluene = 0.16 ppm
pH	Not applicable.
Melting point	Toluene: -95°C
Initial boiling point and range	111°C @ 101.3 hPa
Flash point	8°C
Evaporation rate	Toluene = 6.1
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 7 g/100 g Lower flammable/explosive limit: 1.2 g/100 g
Vapour pressure	29 kPa @ 20°C
Vapour density	Toluene = 3.14
Relative density	0.95 @ 20°C
Solubility(ies)	Toluene: 0.05 g/100 g water @ 25°C
Partition coefficient	log Kow: Toluene: 2.65
Auto-ignition temperature	~420°C
Decomposition Temperature	Not determined.
Viscosity	100 - 300 cP @ 20°C
Explosive properties	Explosion limits for released methanol: 5.5 - 44%(V).
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.
Molecular weight	«184»

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	See Section 10.3 (Possibility of hazardous reactions) for further information.
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10.2. Chemical stability

Stability	Avoid the following conditions: Heat, sparks, flames. Moisture.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	The following materials may react with the product: Acids. Alkalis. Water, moisture. Reaction causes the formation of methanol.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.
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10.5. Incompatible materials

Materials to avoid	Acids. Alkalis. Water, moisture.
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10.6. Hazardous decomposition products

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Hazardous decomposition products Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Under the effect of humidity, water and protic agents (contain and can donate a hydrogen ion); methanol

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) For this endpoint no toxicological data is available for the whole product.

ATE oral (mg/kg) 16,666.67

Acute toxicity - dermal

Notes (dermal LD₅₀) For this endpoint no toxicological data is available for the whole product.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) For this endpoint no toxicological data is available for the whole product.

Skin corrosion/irritation

Animal data For this endpoint no toxicological data is available for the whole product.

Serious eye damage/irritation

Serious eye damage/irritation For this endpoint no toxicological data is available for the whole product.

Skin sensitisation

Skin sensitisation The product contains small amounts of sensitising substances which may cause an allergic reaction in sensitive individuals.

Germ cell mutagenicity

Genotoxicity - in vitro For this endpoint no toxicological data is available for the whole product.

Carcinogenicity

Carcinogenicity For this endpoint no toxicological data is available for the whole product.

Reproductive toxicity

Reproductive toxicity - fertility For this endpoint no toxicological data is available for the whole product. Toluene can possibly impair the unborn child in humans.

Specific target organ toxicity - single exposure

STOT - single exposure Based on constituents classified as a specific target organ toxicant after single exposure. May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation

May cause drowsiness or dizziness.

Ingestion

May cause stomach pain or vomiting. Product may hydrolyse in gastro-intestinal tract and produce methanol. Methanol irritates mucous membranes, and has skin drying and narcotic effects.

Skin contact

Irritating to skin. May cause an allergic skin reaction.

Acute and chronic health hazards

Contains a substance/a group of substances which may damage the unborn child.

Route of entry

Inhalation Ingestion. Skin and/or eye contact

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Toxicological information on ingredients.

TOLUENE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >20 mg/l, Inhalation, Rat

Skin corrosion/irritation

Animal data Moderately irritating. REACH dossier information.

SECTION 12: Ecological Information

Ecotoxicity No test data is available for the product as a whole.

12.1. Toxicity

Ecological information on ingredients.

TOLUENE

Acute toxicity - fish LC₈₀, 96 hours: 5.4 mg/l, Algae

Acute toxicity - aquatic invertebrates EC₈₀, 48 hours: 3.78 mg/l, Freshwater invertebrates

Acute toxicity - aquatic plants EC₈₀, 3 hours: 134 mg/l, Freshwater algae

Acute toxicity - microorganisms IC₈₀, 24 hours: 84 mg/l, Bacteria

12.2. Persistence and degradability

Persistence and degradability Polymer components: Biologically not degradable. Toluene: readily biologically degradable.

Ecological information on ingredients.

TOLUENE

Biodegradation The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential This product is not expected to significantly bioaccumulate.

Partition coefficient log Kow: Toluene: 2.65

Ecological information on ingredients.

TOLUENE

Partition coefficient log Kow: 2.65

12.4. Mobility in soil

Mobility The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment

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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. Materials such as cleaning rags and paper wipes that are contaminated with flammable liquids may self-ignite after use and should be stored in designated fireproof containers with tight-fitting, self-closing lids.

Disposal methods Absorb in vermiculite, dry sand or earth and place into containers.

Waste class HP3 Flammable HP4 Irritant HP5 STOT / Aspiration toxicity HP10 Toxic for reproduction
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. (Contains toluene, butanol)

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (Contains toluene, butanol)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (Contains toluene, butanol)

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. (Contains toluene, butanol)

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

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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

No.

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 MARPOL 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	25/04/2017
Revision	1
Supersedes date	01/06/2015
SDS number	10060

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Hazard statements in full

EUH208 Contains BUTYL METHACRYLATE -norm, METHYL METHACRYLATE. May produce an allergic reaction.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

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.