



SAFETY DATA SHEET ARBO PRIMER 2402

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

1.1. Product identifier

Product name ARBO PRIMER 2402

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

Identified uses Primer for use on specified substrates prior to the application of Arbosil silicone sealants.

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 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.
H318 Causes serious eye damage.
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 eye protection.</p> <p>P280 Wear protective gloves.</p> <p>P261 Avoid breathing vapours.</p> <p>P273 Avoid release to the environment.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P313 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	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics., C7-C10 ISOALKANES, TITANIUM TETRABUTANOLATE, TOLUENE
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2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.	30-60%
CAS number: —	EC number: 927-510-4
Classification	
Flam. Liq. 2 - H225	
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	
C7-C10 ISOALKANES	30-60%
CAS number: 90622-56-3	EC number: 292-458-5
Classification	
Flam. Liq. 2 - H225	
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	
TITANIUM TETRABUTANOLATE	1-5%
CAS number: 5593-70-4	
Classification	
Flam. Liq. 3 - H226	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
STOT SE 3 - H335, H336	

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TOLUENE	1-5%
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	

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

Composition comments Functional siloxanes, and metal catalyst, in solvent mixture.

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	Skin irritation.
Eye contact	May cause serious eye damage.

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

Specific treatments No specific recommendations.

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 Closed containers can burst violently when heated, due to excess pressure build-up. The product is highly flammable. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

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

5.3. Advice for firefighters

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.

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 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.

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.

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. Use approved respirator if air contamination is above an acceptable level.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product.

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

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.

Long-term exposure limit (8-hour TWA): OEL 500 ppm 2085 mg/m³

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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)

OEL = Occupational Exposure Limit.

WEL = Workplace Exposure Limit

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.

DNEL

Workers - Inhalation; Long term systemic effects: 2085 mg/m³
 Workers - Dermal; Long term systemic effects: 300 mg/kg/day
 General population - Inhalation; Long term systemic effects: 447 mg/m³
 General population - Dermal; Long term systemic effects: 149 mg/kg/day
 General population - Oral; Long term systemic effects: 149 mg/kg/day

C7-C10 ISOALKANES (CAS: 90622-56-3)

DNEL

Workers - Dermal; Long term systemic effects: 773 mg/kg/day
 Workers - Inhalation; Long term systemic effects: 2053 mg/m³
 Consumer - Oral; Long term systemic effects: 699 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 699 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 608 mg/m³

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

Eye/face protection

Wear approved safety goggles.

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Hand protection	Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. 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 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	Petroleum.
Odour threshold	Not applicable.
pH	Not applicable.
Melting point	EC No. 927-510-4: <-20°C
Initial boiling point and range	EC No. 927-510-4: 90-104°C @
Flash point	EC No. 927-510-4: -5°C CC (Closed cup).
Evaporation rate	EC No. 927-510-4: 3.3 (ethanol = 1)
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: EC No. 927-510-4: 8 g/100 g Lower flammable/explosive limit: EC No. 927-510-4: 0.9 g/100 g
Vapour pressure	EC No. 927-510-4: 9.6 kPa @ 20°C
Vapour density	No data available
Relative density	0.735 @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	EC No. 927-510-4: 230°C
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not known.
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.
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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 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. Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects There are no data available on this product.

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Irritation of eyes is assumed.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

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 - development Based on available data the classification criteria are not met.

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 Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

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Aspiration hazard	The product is classified as having an aspiration hazard.
Inhalation	May cause drowsiness or dizziness. Vapours may irritate throat and respiratory system and cause coughing.
Ingestion	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Skin contact	May cause irritation.
Eye contact	May cause serious eye damage.

Toxicological information on ingredients.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5840 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ 2800 - 3100 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >23.3 mg/l, Inhalation, Rat

C7-C10 ISOALKANES

Acute toxicity - oral

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

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >3000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >21 mg/l/4hr/day, Inhalation, Rat

Skin corrosion/irritation

Animal data OECD 404 Acute dermal irritation / corrosion: Mildly irritating (rabbit)

Skin sensitisation

Skin sensitisation - Rabbit: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Specific target organ toxicity - single exposure

STOT - single exposure Narcotic effects.

SECTION 12: Ecological Information

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Toxicity There are no data for the product.

Ecological information on ingredients.

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Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.

Acute toxicity - fish	LL ₅₀ , 96 hours: >13.4 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 3 mg/l, Daphnia magna EC ₅₀ , 21 days: 1.6 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 13 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC ₅₀ , 48 hours: 26.81 mg/l, Bacteria
Chronic toxicity - fish early life stage	NOELR, 28 days: 1.534 mg/l, Onchorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 1 mg/l, Daphnia magna

C7-C10 ISOALKANES

Acute toxicity - fish	LC ₅₀ , 96 hours: 18.4 mg/l, Algae
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2.4 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 29 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 6.3 mg/l, Pseudokirchneriella subcapitata
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.17 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.

Biodegradation - Degradation 98%: 28 days

C7-C10 ISOALKANES

Biodegradation - Degradation 22%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient Not applicable.

Ecological information on ingredients.

C7-C10 ISOALKANES

Partition coefficient log Pow: > 3

12.4. Mobility in soil

Mobility The product is insoluble in water.

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

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. Dispose of waste via a licensed waste disposal contractor. Confirm disposal procedures with environmental engineer and local regulations.
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. (C7-C10 Isoalkanes, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (C7-C10 Isoalkanes, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (C7-C10 Isoalkanes, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (C7-C10 Isoalkanes, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)

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



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	10159
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H318 Causes serious eye damage. 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. H411 Toxic to aquatic life with long lasting effects.

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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.