



SAFETY DATA SHEET ARBOMAST AUTOGRADE

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

1.1. Product identifier

Product name ARBOMAST AUTOGRADE

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

Identified uses Windscreen sealing.

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 Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Human health Not considered as a health hazard under current legislation.

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

2.2. Label elements

Hazard statements NC Not Classified

Supplemental label information EUH210 Safety data sheet available on request.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Protective actions during firefighting Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.

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. Follow precautions for safe handling described in this safety data sheet.

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 Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

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 Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Unspecified 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 Gunnable sealant.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

HYDROCARBONS C9 - C12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2 - 25%)

DNEL	Workers - Inhalation; Long term systemic effects: 330 mg/m ³
	Workers - Dermal; Long term systemic effects: 44 mg/kg/day
	General population - Inhalation; Long term systemic effects: 71 mg/m ³
	General population - Dermal; Long term systemic effects: 26 mg/kg/day
	General population - Oral; Long term systemic effects: 26 mg/kg/day

8.2. Exposure controls

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Protective equipment



Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	Not generally required.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
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. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Respiratory protection	Not normally required.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Paste.
Colour	Black.
Odour	Mild (or faint).
Odour threshold	Not applicable.
pH	pH (concentrated solution): Not applicable.
Melting point	Not applicable. °C
Initial boiling point and range	Not applicable. °C @
Flash point	Not applicable. °C
Evaporation rate	Not applicable.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: Not applicable. Upper flammable/explosive limit: Not applicable.
Vapour pressure	Not applicable. @ °C
Vapour density	Not applicable.
Relative density	1.45 @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient	: Not applicable.
Auto-ignition temperature	Not determined.
Viscosity	10,000 P @ 20°C
Explosive properties	Explosive properties Explosive properties Not applicable.
Oxidising properties	Oxidising properties Not applicable. Explosive properties Not applicable.

9.2. Other information

Other information	None.
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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 Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory 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 - fertility Does not contain any substances known to be toxic to reproduction.

Inhalation No specific health hazards known.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact May cause temporary eye irritation. Will not injure eye tissue.

Toxicological information on ingredients.

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HYDROCARBONS C9 - C12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2 - 25%)

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >15000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ 3400 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >13.1 mg/l/4hr/day, Inhalation, Rat

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility Screening - NOAEC >= 300 ppm, Inhalation, Rat P, F1

Reproductive toxicity - development Maternal toxicity: - NOAEL: >= 5220 mg/m³, Inhalation, Rat Developmental toxicity: - NOAEL: >= 5220 mg/m³, Inhalation, Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 0.14 (male) mg/kg/day, Oral, Rat LOAEL based on renal damage. This type of renal damage is specific to male rats, and is not relevant to humans. NOAEL 1.28 (female) mg/kg/day, Oral, Rat NOAEC 3950 mg/m³, Inhalation, Rat NOAEL > 495 mg/kg/day, Dermal, Rat

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Acute toxicity - fish LC₅₀, 96 hours: Not determined mg/l, Algae

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: Not determined mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: Not determined mg/l, Fish

Ecological information on ingredients.

HYDROCARBONS C9 - C12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2 - 25%)

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Acute toxicity - fish	LL ₅₀ , 96 hours: 10 - 30 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL50, 48 hours: 10 - 22 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL50, 72 hours: 4.1 mg/l, Pseudokirchneriella subcapitata NOELR, 72 hours: 0.76 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EL50, 48 hours: 43.98 mg/l, Tetrahymena pyriformis
Chronic toxicity - fish early life stage	NOELR, 28 days: 0.13 mg/l, Onchorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 0.28 mg/l, Daphnia magna NOEC, 21 days: 0.097 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 C9 - C12, n-ALKANES, ISOALKANES, CYCLICS, AROMATICS (2 - 25%)

Biodegradation	Expected to be readily biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient : Not applicable.

12.4. Mobility in soil

Mobility The product is insoluble in water.

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 When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Collect and place in suitable waste disposal containers and seal securely.

Waste class Recommended EWC Code 08 04 10

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

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14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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	02/06/2017
Revision	3
Supersedes date	15/05/2017
SDS number	10161
Hazard statements in full	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. 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.