



## ARBREX SEAL AND HEAL

Version 1 / GB  
1020000080291/9  
Revision Date: 30.10.2012  
Print Date: 07.01.2014

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name ARBREX SEAL AND HEAL  
Product code (UVP) 05873975

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

Use Fungicide

#### 1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience Limited  
230 Cambridge Science Park  
Milton Road  
Cambridge  
Cambridgeshire CB4 0WB  
United KingdomTelephone +44(0)1223 226500  
Telefax +44(0)1223 426240  
Responsible Department Email: gardening.adviser@bayergarden.co.uk

#### 1.4 Emergency telephone no.

Emergency telephone no. 0800-220876 (UK 24 hr)  
+44(0)1635-563000 (Overseas 24 hr)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

R10

#### 2.2 Label elements

Labelling in accordance with the EU Directive on dangerous preparations 1999/45/EC, as amended.

Hazard label for supply/use required.

R-phrase(s)  
R10 Flammable.To avoid risks to man and the environment, comply with the instructions for use.  
Contains colophony. May produce an allergic reaction.S-phrase(s)  
S 2 Keep out of the reach of children.  
S46 If swallowed, seek medical advice immediately and show this container or label.

#### 2.3 Other hazards

No other hazards known.

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Others (XX)

Ethanol 10.0 %

**Hazardous components**

R-phrases according to EC directive 67/548/EEC

Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	Classification		Concentration [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2, H225	10.00

**Further information**

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****Inhalation**

Move the victim to fresh air and keep at rest.

**Skin contact**

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

**Eye contact**

Remove contact lens and rinse eyes immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

**Ingestion**

DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. Keep patient warm and at rest.

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

Local: Slight irritation

Systemic: Nausea, Diarrhoea, Vomiting

**4.3 Indication of any immediate medical attention and special treatment needed****Treatment**

Local treatment:

Initial treatment: symptomatic.

**Treatment**

Systemic treatment:

Initial treatment: symptomatic.



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In the event of a mouthful or more being ingested, the following measures should be considered:

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Unsuitable extinguishing media

High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Dangerous gases are evolved in the event of a fire.

### 5.3 Advice for firefighters

#### Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.

In the event of fire, wear self-contained breathing apparatus.

#### Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Whenever possible, contain fire-fighting water by diking area with sand or earth.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with spilled product or contaminated surfaces.

When dealing with a spillage do not eat, drink or smoke.

### 6.2 Environmental precautions

Do not allow to get into surface water, drains and ground water.

If spillage enters drains leading to sewage works inform local water company immediately.

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

### 6.3 Methods and materials for containment and cleaning up

#### Methods for cleaning up

Keep in suitable, closed containers for disposal.

Clean floors and contaminated objects with plenty of water.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

#### Additional advice

Check also for any local site procedures.

### 6.4 Reference to other sections

Information regarding safe handling, see section 7.

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Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling****Advice on safe handling**

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.

Ensure adequate ventilation.

**Advice on protection against fire and explosion**

Keep away from heat and sources of ignition.

Vapours may form explosive mixture with air.

**Hygiene measures**

When using, do not eat, drink or smoke.

Wash hands immediately after work, if necessary take a shower.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage areas and containers**

Store in original container and out of the reach of children, preferably in a locked storage area.

Keep away from direct sunlight.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Protect from freezing.

**Advice on common storage**

Keep away from food, drink and animal feedingstuffs.

**Storage stability**

Storage temperature < 40 °C

**7.3 Specific end uses**

Refer to the label and/or leaflet.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Ethanol	64-17-5	500 ppm (TWA)		OES BCS*
Ethanol	64-17-5	1,920 mg/m <sup>3</sup> / 1,000 ppm (TWA)	12 2011	EH40 WEL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**8.2 Exposure controls**

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

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In normal use conditions personal protective equipment is not deemed to be necessary. If there is a potential for excessive exposure the following applies:

Respiratory protection	No personal respiratory protective equipment normally required. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
Hand protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection	Wear standard coverall and type 6 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Form	Liquid
Colour	light green
Odour	aromatic
Flash point	40 - 45 °C
Autoignition temperature	The product is not self-ignitable.
Upper explosion limit	19.0 %(V) The data refer to the solvent.
Lower explosion limit	3.3 %(V) The data refer to the solvent.
Density	1.18 - 1.22 g/cm <sup>3</sup> at 20 °C
Water solubility	insoluble, miscible
Viscosity, dynamic	3,900 mPa.s at 20 °C
Explosivity	Not explosive



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### 9.2 Other information

Further safety related physical-chemical data are not known.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Store only in the original container.

### 10.6 Hazardous decomposition products

No decomposition products expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute dermal toxicity	LD50 (rat) > 4,000 mg/kg
Skin irritation	No skin irritation (rabbit)
Eye irritation	No eye irritation (rabbit)
Sensitisation	Non-sensitizing. (guinea pig)

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish	LC50 (Zebra fish (Danio rerio)) > 100 mg/l
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) > 100 mg/l
Toxicity to aquatic plants	EC50 (Algae) > 100 mg/l

### 12.2 Persistence and degradability

Biodegradability Not applicable for this mixture.

### 12.3 Bioaccumulative potential

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Bioaccumulation Not applicable for this mixture.

**12.4 Mobility in soil**

Mobility in soil Not applicable for this mixture.

**12.5 Results of PBT and vPvB assessment**

Not relevant as no chemical safety report is necessary.

**12.6 Other adverse effects**Additional ecological information  
No other effects to be mentioned.

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**Do not empty into drains.  
Dispose of unused product in its container at a household waste site (civic amenity site).  
Contact your local council (local authority) for details.**Contaminated packaging**Dispose of empty container in the dustbin.  
Follow advice on product label and/or leaflet.**Waste key for the unused product**

020199 Wastes not otherwise specified

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**SECTION 14: TRANSPORT INFORMATION****ADR/RID/ADN**

14.1 UN number	1866
14.2 Proper shipping name	RESIN SOLUTION
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Environm. Hazardous Mark	NO
Hazard no.	30
Tunnel Code	D/E
Special Provision	640E

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**IMDG**

14.1 UN number	1866
14.2 Proper shipping name	RESIN SOLUTION
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Marine pollutant	NO

**IATA**

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14.1 UN number	<b>1866</b>
14.2 Proper shipping name	RESIN SOLUTION
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Environm. Hazardous Mark	NO

**UK 'Carriage' Regulations**

14.1 UN number	<b>1866</b>
14.2 Proper shipping name	RESIN SOLUTION
14.3 Transport hazard class(es)	3
14.4 Packing group	III
14.5 Environm. Hazardous Mark	NO
Emergency action code	3Y

**14.6 Special precautions for user**

See sections 6 to 8 of this Safety Data Sheet.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No transport in bulk according to the IBC Code.

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**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2 Chemical Safety Assessment**

A Chemical Safety Assessment is not required for this substance.

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**SECTION 16: OTHER INFORMATION**Text of R-phrases mentioned in Section 3  
R11 Highly flammable.Text of the hazard statements mentioned in Section 3  
H225 Highly flammable liquid and vapour.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Reason for Revision: Safety Data Sheet according to Regulation (EU) No. 453/2010.



**Bayer Garden**

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



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Changes since the last version are highlighted in the margin. This version replaces all previous versions.