

## PROVANTO ARBREX SEAL AND HEAL

05873975

1/10

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

Creation date: 04/12/2020

Revision date: 31/01/2022

Version : 2 / UK & Ireland

#### 1.1 Product identifier

**Trade name** PROVANTO ARBREX SEAL AND HEAL

**Product code** 86601154

**UFI Identifier** 6300-P0FE-A00G-GKMS

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

**Use** Physical Barrier

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

**Supplier** SBM Life Science Ltd  
Hyperion House  
Fordham Road  
Newmarket  
Suffolk  
GREAT BRITAIN  
CB8 7XN

**Telephone** +44 (0)1233 677 611

**Responsible Department** Email: sds@sbm-company.com

#### 1.4 Emergency telephone no.

|   | United Kingdom   | Ireland  |
|---|--|--|
| National Poisons Information Service (NPIS) : | <a href="mailto:director.birmingham.unit@npis.org">director.birmingham.unit@npis.org</a><br><a href="http://www.npis.org/">www.npis.org/</a> | <a href="mailto:info@beaumont.ie">info@beaumont.ie</a><br><a href="http://www.poisons.ie">www.poisons.ie</a> |
| Emergency telephone number                    | +44 (0)800 321 3079<br>(24 Hr)   | +353 (1) 809 2166<br>(8.00am to 10.00 pm 7 days a week)  |

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Flammable liquids: Category 3  
H226 Flammable liquid and vapour.

#### 2.2 Label elements

**Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.**

Hazard label for supply/use required.

**Hazardous components which must be listed on the label:**

- Ethanol



**Signal word:** Warning

**Hazard statements**

**PROVANTO ARBREX SEAL AND HEAL**

05873975

2/10

Creation date: 04/12/2020  
Revision date: 31/01/2022  
Version : 2 / UK & Ireland

H226 Flammable liquid and vapour.  
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground/bond container and receiving equipment.  
P280 Wear protective gloves/ protective clothing/ eye protection.  
P501 Dispose of contents/container to a household waste recycling centre as hazardous waste except for empty containers which can be disposed of by recycling. Contact your local council for details.

**2.3 Other hazards**

No other hazards known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Chemical nature**

Mixture of formulants  
Ethanol 10.0 - 15.0 %

**Hazardous components**

Hazard statements according to Regulation (EC) No. 1272/2008

| Name    | CAS-No. /<br>EC-No. /<br>REACH Reg. No. | Classification                  | Conc. [%]   |
|---------|---|---------------------------------|-------------|
|         |   | REGULATION (EC) No<br>1272/2008 |             |
| Ethanol | 64-17-5<br>200-578-6                    | Flam. Liq. 2, H225              | > 10 – < 15 |

**Further information**

For the full text of the H-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** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

## PROVANTO ARBREX SEAL AND HEAL

05873975

3/10

Creation date: 04/12/2020

Revision date: 31/01/2022

Version : 2 / UK & Ireland

**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

**Symptoms** 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.  
Systemic treatment: Initial treatment: symptomatic. 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** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable** 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 firefighters** 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

**Precautions** 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).

**PROVANTO ARBREX SEAL AND HEAL**

05873975

4/10

Creation date: 04/12/2020  
Revision date: 31/01/2022  
Version : 2 / UK & Ireland

**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.  
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. Take measures to prevent the build up of electrostatic charge. Use only explosion-proof equipment.

**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 containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from freezing.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

**7.3 Specific end use(s)** 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 | 1,920 mg/m <sup>3</sup> /1,000 ppm (TWA) | 12 2011 | EH40 WEL |
| Ethanol    | 64-17-5 | 500 ppm (TWAEV)                          |         |          |

**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.

**PROVANTO ARBREX SEAL AND HEAL**

05873975

5/10

Creation date: 04/12/2020

Revision date: 31/01/2022

Version : 2 / UK &amp; Ireland

**Personal protective equipment**

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**

Respiratory protection is not required under anticipated circumstances of exposure.  
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 of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

**Skin and body protection**

Wear standard coveralls and Category 3 Type 6 suit.  
If there is a risk of significant exposure, consider a higher protective type 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.

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

|   |   |
|---|---|
| <b>Form</b>                                   | Liquid                                      |
| <b>Colour</b>                                 | light green                                 |
| <b>Odour</b>                                  | aromatic                                    |
| <b>Melting point/range</b>                    | ca. 70 °C                                   |
| <b>Flash point</b>                            | 29 °C                                       |
| <b>Auto-ignition temperature</b>              | No data available                           |
| <b>Upper explosion limit</b>                  | 19.0 %(V)<br>The data refer to the solvent. |
| <b>Lower explosion limit</b>                  | 3.3 %(V)<br>The data refer to the solvent.  |
| <b>Density</b>                                | 1.18 - 1.22 g/cm <sup>3</sup> at 20 °C      |
| <b>Water solubility</b>                       | insoluble                                   |
| <b>Partition coefficient: n-octanol/water</b> | Ethanol: log Pow: -0.31                     |
| <b>Viscosity, dynamic</b>                     | 3,900 mPa×s at 20 °C                        |
| <b>Explosivity</b>                            | No data available                           |

**9.2 Other information**

Further safety related physical-chemical data are not known.

**PROVANTO ARBREX SEAL AND HEAL**

05873975

6/10

Creation date: 04/12/2020  
Revision date: 31/01/2022  
Version : 2 / UK & Ireland

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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity****Thermal decomposition** 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. Stable under recommended storage conditions.**10.4 Conditions to avoid** > 40  
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.

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**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute dermal toxicity** LD50  
No data available**Skin irritation** No skin irritation**Eye irritation** No eye irritation**Sensitisation** Non-sensitizing.**Assessment repeated dose toxicity**

Ethanol did not cause specific target organ toxicity in experimental animal studies.

**Assessment mutagenicity**

Ethanol was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

**Assessment carcinogenicity**

Ethanol : This information is not available.

**Assessment toxicity to reproduction**

Ethanol caused reproduction toxicity in generation studies in rats only at dose levels also toxic to the parent animals.

**Assessment developmental toxicity**

Ethanol caused developmental toxicity only at dose levels toxic to the dams.

**Further information**

No further toxicological information is available.

**PROVANTO ARBREX SEAL AND HEAL**

05873975

7/10

Creation date: 04/12/2020  
Revision date: 31/01/2022  
Version : 2 / UK & Ireland

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**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

|  |                           |
|--|---------------------------|
| <b>Toxicity to fish</b>                  | LC50<br>No data available |
| <b>Toxicity to aquatic invertebrates</b> | EC50 No data available    |
| <b>Toxicity to aquatic plants</b>        | EC50<br>No data available |

**12.2 Persistence and degradability**

|                         |                                   |
|-------------------------|-----------------------------------|
| <b>Biodegradability</b> | Ethanol:<br>rapidly biodegradable |
| <b>Koc</b>              | Ethanol:No data available         |

**12.3 Bioaccumulative potential**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Bioaccumulation</b> | No data available                   |
| <b>Bioaccumulation</b> | Ethanol:<br>Does not bioaccumulate. |

**12.4 Mobility in soil**

|                         |                           |
|-------------------------|---------------------------|
| <b>Mobility in soil</b> | No data available         |
| <b>Mobility in soil</b> | Ethanol: soluble in water |

**12.5 Results of PBT and vPvB assessment**

|                                |  |
|--------------------------------|--|
| <b>PBT and vPvB assessment</b> | Ethanol: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). |
|--------------------------------|--|

**12.6 Other adverse effects**

|  |   |
|--|---|
| <b>Additional ecological information</b> | No further ecological information is available. |
|--|---|

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

|                               |  |
|-------------------------------|--|
| <b>Product</b>                | Do not empty into drains.<br>Dispose of unused product in its container at a household waste site (civic amenity site).<br>Contact your local council (local authority) for details. |
| <b>Contaminated packaging</b> | Dispose of empty container in the dustbin.<br>Follow advice on product label and/or leaflet.   |

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**PROVANTO ARBREX SEAL AND HEAL**

05873975

8/10

Creation date: 04/12/2020

Revision date: 31/01/2022

Version : 2 / UK &amp; Ireland

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

|                                 |                |
|---------------------------------|----------------|
| 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             |
| 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                  | <b>1866</b>    |
| 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**

|                                 |                |
|---------------------------------|----------------|
| 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 and the IBC Code**

No transport in bulk according to the IBC Code.

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****UK and Northern Ireland Regulatory References**

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.



**PROVANTO ARBREX SEAL AND HEAL**

05873975

9/10

Creation date: 04/12/2020  
Revision date: 31/01/2022  
Version : 2 / UK & Ireland**Transport**

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367)

Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

**Supply and Use**

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)

Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits

Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

**Waste Treatment**

Environmental Protection Act 1990, Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended)

Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

Water Resources Act 1991

Anti-Pollution Works Regulations 1999

**15.2 Chemical Safety Assessment**

A chemical safety assessment is not required.

**SECTION 16: OTHER INFORMATION****Text of the hazard statements mentioned in Section 3**

H225 Highly flammable liquid and vapour.

**Abbreviations and acronyms**

|          |  |
|----------|--|
| ADN      | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways                |
| ADR      | European Agreement concerning the International Carriage of Dangerous Goods by Road                            |
| ATE      | Acute toxicity estimate  |
| CAS-Nr.  | Chemical Abstracts Service number  |
| Conc.    | Concentration  |
| EC-No.   | European community number  |
| ECx      | Effective concentration to x %   |
| EH40 WEL | Worker Exposure Limit  |
| EINECS   | European inventory of existing commercial substances   |
| ELINCS   | European list of notified chemical substances  |
| EN       | European Standard  |
| EU       | European Union   |
| IATA     | International Air Transport Association  |
| IBC      | International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) |
| ICx      | Inhibition concentration to x %  |

## PROVANTO ARBREX SEAL AND HEAL

05873975

10/10

Creation date: 04/12/2020  
Revision date: 31/01/2022  
Version : 2 / UK & Ireland

|           |  |
|-----------|--|
| IMDG      | International Maritime Dangerous Goods   |
| LCx       | Lethal concentration to x %  |
| LDx       | Lethal dose to x %   |
| LOEC/LOEL | Lowest observed effect concentration/level   |
| MARPOL    | MARPOL: International Convention for the prevention of marine pollution from ships |
| N.O.S.    | Not otherwise specified  |
| NOEC/NOEL | No observed effect concentration/level   |
| OECD      | Organization for Economic Co-operation and Development                             |
| RID       | Regulations concerning the International Carriage of Dangerous Goods by Rail       |
| SI        | Statutory Instrument   |
| TWA       | Time weighted average  |
| UN        | United Nations   |
| WHO       | World health organisation  |

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.

### **Note SBM Life Science:**

This data sheet has been generated according to the safety data sheet supplied by the manufacturer of the product.

**Reason for Revision:** Initial version

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