

## PASSIVE PURPLE EXTERNAL BRUSH

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

**1.1. Product identifier**

**Product name** : PASSIVE PURPLE EXTERNAL  
**Registration number REACH** BRUSH :Not applicable (mixture)  
**Product type REACH** : Mixture

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

Watertight facade membrane

**1.2.2 Uses advised against**

No uses advised against known

**1.3. Details of the supplier of the safety data sheet**
**Supplier of the safety data sheet**

IntelligentMembranes Ltd.  
 Clopton Farm, Lower Road  
 Croyden, SG8 0EF, United Kingdom  
 ☎+44 1223 208174  
 info@intelligentmembranes.co.uk

**1.4. Emergency telephone number**

24h/24h (Telephone advice: English, French, German) :  
 +44 1223 208174

### SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

**2.2. Label elements**

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

**Supplemental information**

EUH208Contains: 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.  
 EUH210Safety data sheet available on request.

**2.3. Other hazards**

No other hazards known

### SECTION 3: Composition/information on ingredients

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
aluminium hydroxide (2) Substance with a Community workplace exposure limit	21645-51-2 01-2119529246-39 2144-492-7	C<40 %		(2)	Constituent

### SECTION 4: First aid measures

**4.1. Description of first aid measures**
**General:**

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

**After inhalation:**

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

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**After skin contact:**

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

**After eye contact:**

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.

**After ingestion:**

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Consult a doctor/medical service if you feel unwell.

## 4.2. Most important symptoms and effects, both acute and delayed

### 4.2.1 Acute symptoms

**After inhalation:**

No effects known.

**After skin contact:**

No effects known.

**After eye contact:**

No effects known.

**After ingestion:**

No effects known.

### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Adapt extinguishing media to the environment for surrounding fires.

#### 5.1.2 Unsuitable extinguishing media:

Not applicable.

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

Upon combustion: formation of CO, CO<sub>2</sub> and small quantities of nitrous vapours, sulphur oxides and formation of metal oxides.

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

No specific fire-fighting instructions required.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: compressed air apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

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

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing \_\_\_\_\_

See heading 8.2

### 6.2. Environmental precautions

Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

### 6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe strict hygiene.

### 7.2. Conditions for safe storage, including any incompatibilities

#### 7.2.1 Safe storage requirements:

Storage temperature: 0 °C - 50 °C. Meet the legal requirements.

#### 7.2.2 Keep away from:

Heat sources.

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## 7.2.3 Suitable packaging material:

Plas cs.

## 7.2.4 Non suitable packaging material:

No data available

## 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

##### Belgium

Aluminium (métal et composés insolubles, fraction alvéolaire)	Time-weighted average exposure limit 8 h	1 mg/m <sup>3</sup>
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##### USA (TLV-ACGIH)

Aluminium, insoluble compounds	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1 mg/m <sup>3</sup> (R)
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(R): Respirable fraction

##### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

##### Product name Test Number

Aluminum & Compounds (as Al)	NIOSH7013	
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#### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 Threshold values

##### DNEL/DMEL - Workers

aluminium hydroxide

	Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation		10.76 mg/m <sup>3</sup>	
DMEL	Long-term local effects inhalation		10.76 mg/m <sup>3</sup>	

##### DNEL/DMEL - General population

aluminium hydroxide

	Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects oral		4.74 mg/kg bw/day	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Do not eat, drink or smoke during work.

##### a) Respiratory protection:

Respiratory protection not required in normal conditions.

##### b) Hand protection:

Chemical-resistant gloves.

##### c) Eye protection:

Safety glasses (EN166).

##### d) Skin protection:

Protective clothing (EN14605 or EN13034).

#### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical form	Liquid
Odour	Mild odour
	Aromatic odour
Odour threshold	No data available
Colour	Purple
	White
	Grey
Particle size	Not applicable (liquid)

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Explosion limits	No data available
Flammability	Non-flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	Water ; miscible
Relative density	No data available
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Flash point	Not applicable
Explosive properties	No chemical group associated with explosive properes
Oxidising properties	No chemical group associated with oxidising properes
pH	No data available

## 9.2. Other information

Absolute density	No data available
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

No data available.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

#### Precautionary measures

Keep away from naked flames/heat.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

Upon combustion: formaon of CO, CO2 and small quan es of nitrous vapours, sulphur oxides and formaon of metal oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

##### Acute toxicity

##### Conclusion

Not classified for acute toxicity

##### Corrosion/irritation

##### Conclusion

Not classified as irritating to the skin

Not classified as irritating to the respiratory system

Not classified as irritating to the eyes

##### Respiratory or skin sensitisation

##### Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

##### Specific target organ toxicity

##### Conclusion

Not classified for subchronic toxicity

##### Mutagenicity (in vitro)

##### Mutagenicity (in vivo)

##### Conclusion

Not classified for mutagenic or genotoxic toxicity

##### Carcinogenicity

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## Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

### Conclusion

Not classified for reprotoxic or developmental toxicity

## Chronic effects from short and long-term exposure

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Skin rash/inflammation.

## SECTION 12: Ecological information

### 12.1. Toxicity

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aluminium hydroxide

	Parameter	Method	Value	Duration	Species	Test design Fresh/salt water	Value determination
Acute toxicity fishes	LC50		> 10000 mg/l	96 h	Pisces		Literature study
Acute toxicity crustacea	EC50		> 10000 mg/l	48 h	Daphnia magna		Literature study

### Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

### 12.2. Persistence and degradability

Water:

Contains readily biodegradable component(s)

### 12.3. Bioaccumulative potential

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#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

aluminium hydroxide

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

### Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

### 12.4. Mobility in soil

Contains component(s) with potential for mobility in the soil

### 12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

### 12.6. Other adverse effects

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#### Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are a relevant exposure attached in annex. Always use the scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

##### European Union

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. The waste code must be assigned by the user, preferably in consultation with the (environmental) authorities concerned.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### 13.1.3 Packaging/Container

##### European Union

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Waste material code packaging (Directive 2008/98/EC).  
15 01 02 (plastic packaging).

## SECTION 14: Transport information

### Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number	
Transport	Not subject
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	
Hazard identification number	
Class	
Classification code	
14.4. Packing group	
Packing group	
Labels	
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	
Limited quantities	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Annex II of MARPOL 73/78	Not applicable, based on available data

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
	Insufficient data

European drinking water standards (Directive 98/83/EC)

aluminium hydroxide

Parameter	Parametric value	Note	Reference
Aluminium 200 µg/l			Listed in Annex I, Part C, of Directive 98/83/EC on the quality of water intended for human consumption.

#### National legislation Belgium

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No data available

#### National legislation The Netherlands

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Waterbeschikbaarheid (4): Algemene Beoordelingsmethodiek (ABM)

#### National legislation France

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No data available

#### National legislation Germany

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WGK1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017

aluminium hydroxide

TA-Luft 5.2.1

#### National legislation United Kingdom

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No data available

#### Other relevant data

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No data available

aluminium hydroxide

TLV - Carcinogen Aluminium, insoluble compounds; A4

### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

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## SECTION 16: Other information

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
CLP (EU-GHS) DMEL	Classification, labelling and packaging (Globally Harmonised System in Europe)
DNEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.