

SAFETY DATA SHEET



ENVIROGRAF®

HS004W-08-2019

Product Number: 4

Intumescent Coated Slabs with Waterproof Coating

Description:

A high-density rock-fibre slab with intumescent coating and waterproof coating on both sides.

Under Regulation 1907/2006 REACH Safety Data Sheets are only required for hazardous substances and mixtures/preparations; Intumescent Systems Ltd is not therefore legally obliged to supply Safety Data Sheets for its articles. Despite this Intumescent Systems Ltd has decided to provide its customers with information regarding the safe use and handling of the products listed above by means of this Safety Data Sheet.

This product comprises of the following materials and therefore is supported by the following Health & Safety Data Sheets:

- (Appendix 4) Health & Safety Sheet Rockwool Slab
- (Appendix 6) Health & Safety Sheet Intumescent Slab Coating
- (Appendix 40) HW/AEC

*The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

HEALTH & SAFETY INFORMATION SHEET

APPENDIX 4

Rock Fibre Slabs

Issue 3, 7th September 2018

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1 Product Identifier:	Rock Fibre Slabs
1.2 Relevant identified uses of the substance or mixture and uses advised against	Thermal insulation, acoustic insulation and fire protection in building applications. No uses advised against for physical, health and environmental considerations as covered by REACH
1.3 Manufacturer/supplier:	Envirograf
Address:	Envirograf house, Barfrestone, Dover, Kent, CT15 7JG
Telephone/fax/email:	01304 842555 01304 842666 sales@envirograf.com
1.4 Emergency phone number:	01304 842555 (Monday to Friday 8.30 – 5.30)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: There is no hazard statement associated with this material. Rock fibre mineral wool is not classified as dangerous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP)

2.2 Label elements: The overall conclusion in accordance with the CLP regulation, REACH regulation and the Globally Harmonised System (GHS) is that there are no hazardous classifications associated with Rock fibre mineral wool fibres in respect to physical health and environmental considerations.

2.3 Other hazards:

Use of high speed cutting tools can generate dust.

If in contact with constant heat >175°C, the binder will be slowly broken down.

Further information can be found in Section 8.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	EC Identification number	REACH Registration number	Content (% weight)	Classification, labelling & packaging [EU Regulation (CE) 1272/2008]
Stone wool ¹	926-099-9	01-211-947-2313-44	95-100%	Not classified ²
Synthetic thermosetting polymer binder			0-5%	Not Classified
Mineral oil			0-0.5%	Not Classified
Silicon oil/emulsion ³			0-0.5%	Not classified

¹ Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the Nota Q conditions of Regulation 1272/2008

² Note Classified H351 "suspected of causing cancer". Stone wool insulation fibres are not classified as carcinogenic in accordance with Note Q of Regulation 1272/2008. Stone wool products do not contain CLP classified substances >0.1%

³ Silicon oil/emulsion is used in place of mineral oil in certain stone wool products

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove from exposure. Rinse the throat and clear dust from airways

Skin: If itching occurs, remove contaminated clothing & wash skin gently with clean cold water & mild soap.

Eyes: Rinse abundantly with clean water for at least 15 minutes.

Ingestion: If accidentally ingested, drink plenty of water.

4.2 Most important symptoms & effects, both acute & delayed: The mechanical effect of fibres in contact with skin may cause temporary itching/inconvenience.

4.3 Indication of any immediate medical attention & special treatment needed: None required, if any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂), and dry powder

Unsuitable extinguishing media: None

5.2 Special hazards arising from the substance or mixture: None special. Use normal body and respiratory protection for fire.

5.3 Advice for firefighters: The unfaced products are non-combustible, some packaging materials or facing may however be combustible.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment & emergency procedures: In case of presence of high concentrations of dust, use the same personal protective equipment as described in Section 8

6.2 Environmental precautions: None required

6.3 Methods & materials for containment & cleaning up: Dampen with water spray before sweeping or use vacuum equipment

6.4 Reference to other sections: For personal protection equipment see Section 8. For waste disposal, see Section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling: No specific measures. Preferably use a knife for cutting. If a power tool is used, provide effective dust extraction. Ensure adequate ventilation of workplace. See Section 8. Avoid unnecessary handling of unwrapped product. See Section 8.

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures: No special measures necessary.

Suitable storage conditions: Products should be kept dry, if possible in original packaging

Incompatible materials: None

Packaging material: Products are typically packed in polyethylene film, cardboard and/or on wooden pallets.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Workplace exposure limit (WEL) 5mg/m³ gravimetric measure (total inhalable dust) & 2 fibres/ml airborne fibre limit, 8-hour time weighted averages. HSE guidance assumes that the gravimetric measures would be reached before the fibre measure. (Ref. HSE EH40)

8.2 Exposure controls

8.2.1 Appropriate engineering controls: No specific requirements

8.2.2 Individual protection measures, such as personal protective equipment:

- **Eye protection:** With heavy dust development or particularly when working with product above shoulder height, the use of safety goggles to EN166 is advised.
- **Hand protection:** Use gloves conforming with EN 388 to avoid itching
- **Skin protection:** Cover exposed skin
- **Respiratory protection:** When working in unventilated areas or during operations which can generate emission of (various) dusts, wearing a disposable face mask in accordance with EN149 FFP1 is recommended.

At high temperatures not usually found in building construction (>175°C), the product binder will slowly decompose and trace gases will be released. When high temperature appliances are first put into service, gases should be vented to control exposure to fumes or appropriate respirators used.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Solid grey-green

Odour: Odourless
Odour threshold: Not applicable
pH: Not relevant. Solid
Melting point: >1000°C
Initial boiling point and boiling range: Not relevant. Solid
Flash point: Not relevant - non-combustible (re UK & Ireland Building Regulations)
Evaporation range: Not applicable
Flammability: Not relevant - non-combustible (re UK & Ireland Building Regulations)
Upper/lower flammability or explosive limits: Not relevant - non-combustible (re UK & Ireland Building Regulations)
Vapour pressure: Not relevant. Solid
Vapour density: Not relevant. Solid
Relative density: Depends on product type (ty. Between 20 and 300 kg/m³)
Solubility: Generally chemically inert and insoluble in water
Partition coefficient n-octanol/water: Not relevant. Insoluble in water
Auto-ignition temperature: Not relevant - non-combustible (re UK & Ireland Building Regulations)
Decomposition temperature: When heated to approx. 175°C for the first time, release of binder decomposition products occurs.
Viscosity: Not relevant. Solid
Explosive properties: Not relevant - non-combustible (re UK & Ireland Building Regulations)
Oxidising properties: Not relevant. Non-oxidising

9.2 Other information: No further chemical or physical properties to report.

10. STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive
10.2 Chemical stability: Stable
10.3 Possibility of hazardous reactions: Not reactive
10.4 Conditions to avoid: None specified
10.5 Incompatible materials: None specified
10.6 Hazardous decomposition products: When insulation wool is heated to approximately 175°C for the first time, release of binder decomposition products occurs. See 8.2.2

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: No acute toxicity
Irritation: In the case of coarser fibres there can be mechanical effects on skin, upper respiratory system (mucous membranes) and eyes that can cause temporary, self-fading effects (e.g. itching). No chemical effects ensue.
Corrosivity: No corrosivity
Sensitisation: No sensitisation
Repeated dose toxicity: No repeated dose toxicity.
Carcinogenicity: None. Owing to its high bio-solubility, the fibre used in stone wool insulation materials is assessed as free from suspicion of possible carcinogenic effects in accordance with Regulation (EC) No 1272/2008 (Ref: Note Q). In October 2001, the International Agency for Research on Cancer (IARC) classified rock (stone) wool insulation as Group 3 (not classifiable as to its carcinogenicity in humans) i.e. not suspected of causing cancer in humans.
Mutagenicity: No mutagenicity
Toxicity for reproduction: No toxicity for reproduction.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: None. This product is not expected to cause harm to animal or plants during normal conditions of use. Stone wool is principally made from non-scarce rock material and recycled stone wool.
12.2 Persistence and degradability: None
12.3 Bioaccumulative potential: None
12.4 Motability in soil: None
12.5 Results of PBT and vPvB assessment: No assessment required
12.6 Other adverse effects: Relying on entrapped air for its thermal properties, the products do not and never have used blowing agents with Ozone Depleting Potential or Global Warming Potential.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Rock fibre material is recyclable

Rock fibre material is classified as non-hazardous waste. Rock fibre insulation waste is covered by the non-hazardous entry "17 06 04 insulation materials other than those mentioned in 17 06-01 and 17 06 03" in the European Waste Catalogue, established by EC Decision 2000/532/EC (hazardous waste) Under landfill regulations rock fibre insulation waste is categorized as "waste accepted at landfills for non-hazardous waste in accordance with EC Decision 2003/33/EC (landfill acceptance criteria)

14. TRANSPORT INFORMATION

14.1 UN Number: Not applicable

14.2 UN Proper shipping name: Not applicable

14.3 Transport hazard class(es): Not applicable

14.4 Packing Group: Not applicable

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user: None specified

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture: The overall conclusion in accordance with the CLP, GHS and REACH regulations is that there are no hazardous classifications associated with rock fibre in respect to physical health and environmental aspects.

15.2 Chemical safety assessment: No assessment required.

16. OTHER INFORMATION

This Safety Data Sheet has been prepared in accordance with European Commission Regulation (EU) No. 453/2010 (REACH).

Although REACH Regulations do not require a safety data sheet to be provided for stone wool insulation, this format is used to provide standardized health and safety information.

All stone wool insulation products supplied by Envirograf are made of fibres exonerated from classification as a carcinogen in accordance with Regulation (EC) No. 1272/2008 (ref. Nota Q).

Stone wool fibres are subject to independent assessment by EUCEB.

Membership of the EUCEB certification scheme is voluntary and certifies compliance with the parameters laid down in Nota Q, as defined by Regulation (EC) No. 1272/2008.

This data sheet does not constitute a workplace assessment.

The information provided represents the state of our knowledge regarding this material at the date of its publication.

The information provided does not constitute a product specification and no warranty expressed or implied is hereby made.

The information relates only to the specific material designated when used in applications it has been designed for. This information may not be valid for such material used in combination with any other materials or in any other processes, unless specified in the text.

History

Date of revision 7th September 2018

Reason for revision General review / change of format

Sections revised All sections revised

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the most recent REACH Regulations. The product should not be used for purposes other than those shown without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current EU legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications

HEALTH & SAFETY INFORMATION SHEET
APPENDIX 6
SLAB COAT

14th April 2015 ISSUE 2

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME:	Slab Coat
MANUFACTURER/SUPPLIER:	Envirograf
ADDRESS:	Envirograf House, Barfreestone, Nr Dover, Kent, CT15 7JG
TELEPHONE / FAX / EMAIL	01304 842555 01304 842666 sales@envirograf.com
EMERGENCY PHONE NUMBER:	01304 842555 (Monday to Friday 8.30 – 5.30)

2. HAZARDS IDENTIFICATION

HEALTH EFFECTS:	
SKIN:	May cause slight irritation on prolonged / repeated contact.
EYES:	May cause some irritation.
INHALATION:	No hazard under normal conditions of use.
INGESTION:	Low toxicity.
PHYSICAL/CHEMICAL EFFECTS:	Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:	Aqueous (emulsion) polymer system
----------------------------	-----------------------------------

4. FIRST AID MEASURES

SKIN CONTACT:	Remove contaminated clothing and wash contaminated skin with soap and water.
EYE CONTACT:	Wash with water for several minutes. If irritation persists seek medical advice.
INHALATION:	Remove the casualty to fresh air.
INGESTION:	Rinse out mouth with water and if conscious drink plenty of water. Seek medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:	Foam, carbon dioxide, powder, and water spray.
EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:	None known.
SPECIAL EXPOSURE HAZARDS:	None known
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:	Chemical protection suit / gloves / boots and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Use personal protection equipment.
ENVIRONMENTAL PRECAUTIONS:	Do not dispose of into surface water or sanitary sewer system.
METHODS FOR CLEANING UP:	Scrape up excess and dispose of at an approved site.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS: Avoid contact with skin and eyes.

STORAGE CONDITIONS: Store in closed containers between + 5°C and + 30°C in dry conditions. Avoid extremes of temperature. Protect from frost.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS: Not applicable.

ENGINEERING MEASURES:

PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY PROTECTION: Not applicable.

HAND PROTECTION: Gloves.

EYE PROTECTION: Goggles.

SKIN AND BODY PROTECTION: Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOUR: White.
FORM: High viscosity gel / paste.
ODOUR: Slight.
PH AS SUPPLIED: 7.0 to 8.5
BOILING POINT/RANGE: Not applicable.
MELTING POINT/RANGE: Not applicable.
FLASH POINT: Not applicable.
FLAMMABILITY (SOLID/GAS): Not applicable.
AUTOIGNITION TEMPERATURE: Not applicable.
EXPLOSIVE PROPERTIES: Not applicable.
OXIDISING PROPERTIES: Not applicable.
VAPOUR PRESSURE: Not applicable.
BULK DENSITY: 1.40 to 1.43g/cm³
SOLUBILITY:
WATER SOLUBILITY: Miscible.
PARTITION COEFFICIENT: Not applicable.
(n-octanol/water)
OTHER DATA

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid extremes of temperature especially frost and freezing conditions.

MATERIALS TO AVOID: None, under normal conditions of use.

HAZARDOUS DECOMPOSITION

PRODUCTS: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Not applicable.

12. ECOLOGICAL INFORMATION

Not applicable.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations at approved sites.

14. TRANSPORT INFORMATION

UK ROAD/RAIL:	Not applicable. None hazardous.
IMDG:	Not applicable. None hazardous.
ICAO:	Not applicable. None hazardous.
ADR:	Not applicable. None hazardous.

15. REGULATORY INFORMATION

SUPPLY CLASSIFICATION:
HAZARD SYMBOL(S): None.
RISK PHRASES: Irritating to eyes and skin.
SAFETY PHRASES: Avoid contact with skin and eyes.
Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

RECOMMENDED USE: Adhesive for use with fire retardant / resistant assemblies.
FURTHER INFORMATION: Consult technical data sheet.

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

HEALTH & SAFETY INFORMATION SHEET

APPENDIX 40

HW ACRYLIC WHITE TOP COAT

DATE OF ISSUE 03.09.2018

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1 Product identifier

Product name : HW Acrylic White Top Coat
Product code : Not available
Other means of identification : Not available

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

Product use : Consumer applications, Professional applications
Use of the substance/ mixture : Coating

1.3 Details of the supplier of the safety data sheet

Envirograf
Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
Telephone/fax/email: 01304 842555 01304 842666 sales@envirograf.com

1.4 Emergency telephone number:

Supplier 01304 842555 (Not 24 Hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification According to Regulation (EC) No. 1272/2008 [CLP/GHS]:

Not classified

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label Elements

Signal word : No signal word

Hazard statements : No known significant effects or critical hazards

Precautionary statements

General : Keep out of reach of children. If medical advice is needed, have product container or label at hand

Prevention : Not applicable

Response : Not applicable

Storage : Not applicable

Disposal : Not applicable
P102, P101

Hazardous ingredients : Not applicable

Supplemental label elements : Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) and 1,2-benzothiazol-3 (2H)-one. May produce an allergic reaction.

Annex XVII- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles. : Not Applicable

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable

Tactile warning of danger : Not applicable

2.3 Other hazards

Other hazards which do not result in classification : None known

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures :Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

4. FIRST AID MEASURES

4.1 Description of first aid

Eye contact: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelid seek immediate medical advice.

Inhalation: Remove to fresh air, keep patient warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin Contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or a recognized skin cleaner. DO NOT USE SOLVENT OR THINNERS.

Ingestion: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. DO NOT induce vomiting

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards

Inhalation : No known significant effects or critical hazards

Skin contact : No known significant effects or critical hazards

Ingestion : No known significant effects or critical hazards

Over-exposure signs/symptoms

Eye contact : No specific data

Inhalation : No specific data

Skin contact : No specific data

Ingestion : No specific data

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled

Specific treatments: No specific treatment.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire

Unsuitable extinguishing media : None known

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst

Hazardous combustion products : Decomposition products may include the following materials: carbon oxides, metal oxide/oxides

5.3 Advice for firefighters

Special precautions for Firefighters : Promptly isolate the scene by removing all persons from the vicinity of the incident there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for firefighters : Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN469 will provide a basic level of protection for chemical incidents

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency Personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding area. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel."

6.2 Environmental Precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other Sections : See Section 1 for emergency contact information
See Section 8 for information appropriate personal protective equipment
See Section 13 for additional waste treatment information

7. HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s)

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities : Storage temperature 5 to 25°C (41 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s)

8.1 Control parameters

Occupational exposure limits

No exposure limit value known

Recommended monitoring Procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

DNELs – Not available.

PNECs

PNECs –Not available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety glasses with side shields. Use eye protection according to EN 166

Skin protection

Hand Protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Gloves : For prolonged or repeated handling, use the following type of gloves:

Recommended: Viton®

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Liquid
Colour	: Various
Odour	: Faint odour
Odour threshold	: Not available
pH	: 8
Melting/freezing point	: May start to solidify at the following temperature: 0°C (32°F). This is based on data for the following ingredient: Water. Weighted average: -21°C (28.2°F)
Initial boiling point and boiling range	: >37.78°C
Flash point	: Closed cup: Not applicable [Product does not sustain combustion]
Evaporation rate	: Not available
Material supports combustion	: No
Flammability (solid, gas)	: Liquid
Upper/lower flammability or explosive limits	: Not applicable
Vapour pressure	: Highest known value: 3.2 kPa (23.8mm Hg) (at 20°C) (water) Weighted Average: 3.11 kPa (23.33 mm Hg) (at 20°C)
Vapour density	: Highest known value: 7.5 (Air = 1) (isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol)
Relative density	: 1.24
Solubility(ies)	: Partially soluble in the following materials: cold water
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7)
Viscosity	: Kinematic (40°C): >2.1cm ² /s
Explosive properties	: Not available
Oxidising properties	: Product does not present an explosion hazard

9.2 Other information

No additional information.

10. STABILITY AND REACTIVITY

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reaction will not occur
10.4 Conditions to avoid	: When exposed to high temperature may produce hazardous decomposition products. Refer to protective measures listed in Sections 7 & 8
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Decomposition products may include the following materials carbon oxides, metal oxide / oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Conclusion/Summary : There are no data available on the mixture itself

Acute toxicity estimates

Route	ATE value
Not available	

Irritation/Corrosion

Conclusion/Summary

Skin : There are no data available on the mixture itself

Eyes : There are no data available on the mixture itself

Respiratory : There are no data available on the mixture itself

Sensitisation

Conclusion/Summary

Skin : There are no data available on the mixture itself

Respiratory : There are no data available on the mixture itself

Mutagenicity

Conclusion/Summary : There are no data available on the mixture itself

Carcinogenicity

Conclusion/Summary : There are no data available on the mixture itself

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

Information on the likely routes of exposure – Not available

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical chemical and toxicological characteristics

Inhalation : No specific data

Ingestion : No specific data

Skin contact : No specific data

Eye contact : No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available

Potential delayed effects : Not available

Long term exposure

Potential immediate effects : Not available

Potential delayed effects : Not available

Potential chronic health effects

Not available

Conclusion/Summary : Not available

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available

There are no data available on the mixture itself. The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500- 7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) and 1,2-benzothiazol-3 (2H)-one. May produce an allergic reaction.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Conclusion/Summary : There are no data available on the mixture itself

12.2 Persistence and degradability:

Conclusion/Summary : There are no data available on the mixture itself

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Soil/water partition : Not available

Coefficient (Koc)

Mobility : Not available

12.5 Results of PBT and vPvB assessment

PBT : Not applicable

vPvB : Not applicable

12.6 Other adverse effects : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s)

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protections and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 12	Waste paint and varnish other than those mentioned in 08 01 11

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)
Container	15 01 02 plastic packaging 15 01 04 metallic packaging

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 environmental hazards	No	No	No	No
Marine pollutant substances	Not applicable	Not applicable	Not applicable	Not applicable

Additional information

ADR/RID : None identified
ADN : None identified
IMDG : None identified
IATA : None identified

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable

15. REGULATORY INFORMATION

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV – List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable

Other EU regulations

Ozone depleting substances (1005/2009/EU) :Not listed

VOC for Read-for-Use Mixture : IIA/c. Exterior walls of mineral substrate. EU limit values: 40g/l (2010)

This product contains a maximum of 30g/l VOC

Seveso Directive

This product is controlled under the Seveso Directive

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative
ADR = The European Agreement concerning the International Carriage of Dangerous Goods
by Road
ADN = European Provisions concerning the International Carriage of Dangerous Goods by
Inland Waterway
IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified	

Full text of abbreviated H.

Statements

Not applicable

Full text of classifications

[CLP/GHS]

Not applicable

History

Date of Issue/date of revision 2 August 2018

Date of previous issue 18th February 2015

Prepared by – Intumescent Systems Ltd

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.
