

SAFETY DATA SHEET

Enhance n Seal

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

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

- 1.1 Product identifier**
Enhance n Seal
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Sealer for stone products
- 1.3 Details of the supplier of the safety data sheet**
All For Stone Limited
4 Gardd Yr Gwanwyn
Northrop Hall
Mold
Flintshire
CH7 6GA
Mold, Wales, U.K.
Tel: + 44 (0)1244 819939
- E mail: info@celtexagencies.co.uk
- 1.4 Emergency telephone number**
Tel. + 44 (0)1244 819939 (office hours)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification in accordance with the Dangerous Preparations Directive 1999/45/EC

Highly Flammable, F; R11 Highly flammable
Irritant, Xi; R36/38 Irritating to eyes and skin

Classification in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008

Flammable Liquid Category 2, H225 Highly flammable liquid and vapour.
Skin Irritant, Category 2, H315 Causes skin irritation
Eye Irritant Category 2, H319 Causes serious eye irritation

2.2 Label elements

Labelling in accordance with the Dangerous Preparations Directive 1999/45/EC



Highly Flammable, Irritant

R36/38 Irritating to eyes and skin
 S(1/2) Keep locked up and out of the reach of children
 S7/9 Keep container tightly closed and in a well-ventilated place
 S16 Keep away from sources of ignition — No smoking – rec
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
 S43 In case of fire use dry powder, carbon dioxide or foam. Never use water

Labelling in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008



Danger

H225 Highly flammable liquid and vapour.
 H315 Causes skin irritation
 H319 Causes serious eye irritation
 P101 If medical advice is needed, have product container or label at hand.
 P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P370 + P378 In case of fire: Use dry powder, carbon dioxide or foam for extinction.
 P501 Dispose of contents/container to hazardous waste facility

2.3 Other hazards

May hydrolyse in the presence of moisture releasing alcohols including methanol.

SECTION 3: Composition

3.1 Substances

No applicable – product is a mixture.

3.2 Mixtures

Name	CAS No	Concentration	Classification
Triethoxyoctylsilane	2943-75-1	7 – 13	Xi; R36/38 Skin Irrit. 2, H315, Eye Irrit. 2, H319
Hexyltrimethoxysilane	3069-19-0	3 – 7	Xi; R36/38 Skin Irrit. 2, H315, Eye Irrit. 2, H319
Titanium tetrabutanolate	5593-70-4	1 - 3	R10 - Xi; R38-R41 Flam. Liq. 3, H226, Skin Irrit. 2, H315, Eye Dam. 1, H318
Methanol	67-56-1	1 – 3	F; R11, T; R23/24/25-39/23/24/25 Flam. Liq. 2, H225, Acute Tox. 3, H331 Acute Tox. 3, H311, Acute Tox. 3, H301 STOT SE 1, H370
n-Butanol	71-36-3	0.1 - 1	R10, Xn; R22, Xi; R37/38-41, R67 Flam. Liq. 3, H226, Acute Tox. 4, H302 STOT SE 3, H335, Skin Irrit. 2, H315 Eye Dam. 1, H318, STOT SE 3, H336

See section 16 for full description of R phrases and H statements.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Wash thoroughly with water and obtain medical attention if signs of discomfort.

INHALATION: Remove from exposure. If breathing becomes difficult call a doctor.

SKIN CONTACT: Wash off with soap and water. Seek medical attention if irritation occurs. Wash contaminated clothing before re-use.

INGESTION: If swallowed, rinse mouth with water. Do not induce vomiting. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

EYES: Redness, pain, tearing (watering) of eyes

INHALATION: Irritation of nose and throat, cough, breathing difficulties

SKIN: Redness, irritation. On prolonged/repeated exposure, dryness, cracking.

INGESTION: Discomfort, nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatments needed

Symptomatic treatment as required

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Do not use water. Foam, dry chemical, carbon dioxide recommended.

5.2 Special hazards arising from the substance or mixture

Contains alkoxysilanes which may hydrolyse in the presence of damp air and water to form ethanol and methanol which are highly flammable. Can generate formaldehyde at temperatures greater than 150°C. Use water spray to keep fire exposed containers cool.

5.3 Advice for fire fighters

Fire fighters should wear structural fire-fighting gear and self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Isolate the spill area and keep unnecessary personnel away. Remove all ignition sources. Ensure adequate ventilation. Wear suitable protective clothing including gloves and eye protection. See section 8 for further details. Caution – spill area may be slippery.

6.2 Environmental precautions

Prevent further leakage or spillage. Keep away from drains, surface and ground-water and soil. If large quantity of product does enter waterways or sewerage system, inform appropriate authorities.

6.3 Methods and materials for containment and clearing up

SMALL SPILLS: Spills of up to 1 litre can be absorbed in a non-combustible absorbent, e.g. sand or vermiculite, and place in a suitable container and label for disposal.

LARGE SPILLS: Contain spill and cover if possible to prevent spreading of spilled material. Absorb spilled liquid with suitable material such as dirt or sand. Place in appropriate container and label for disposal.

Wash spill site thoroughly with water and detergent. Diluted washings may be discharged into foul-water systems leading to waste water treatment plants.

6.4 References to other sections

See section 8 for further advice on protective equipment and section 13 for further advice on disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Keep away from sources of ignition. No smoking. Open containers slowly, on a stable surface. Avoid contact with skin and eyes. Do not breathe sprays or mists. Use only in a well-ventilated location. As with any chemical, employees should thoroughly wash hands with soap and water after handling this material. Do not eat or drink while handling this material.

7.2 Conditions for safe storage, including any incompatibilities

Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store containers away from incompatible chemicals. Keep container tightly closed when not in use. Keep out of the reach of children.

7.3 Specific end uses(s)

No specific precautions.

SECTION 8. Exposure Controls/Personal Protection**8.1 Control parameters**

Substance	8 hour exposure limit	15 minute exposure limit	Source, Type
Methanol	200 ppm (266 mg/m ³)	250 ppm (333 mg/m ³)	EH40, 2007
Butan-1-ol		50 ppm (154 mg/m ³)	EH40, 2007

8.2 Exposure controls**Engineering controls**

Normal room ventilation is usually adequate.

Respiratory protection

Not normally required. If adequate ventilation is unavailable, use approved air-purifying respirator with organic vapour cartridge or canister.

Hand Protection

Wear suitable chemical resistant gloves. Change gloves in accordance with manufacturer's recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

Eye protection

Wear safety glasses or goggles giving protection against liquid droplets/splashes.

Skin protection

Coveralls recommended. These should be changed after use or if contaminated. Wash before re-use.

Environmental exposure controls

When handling small quantities (less than 1 litre), no special precautions required. If handling bulk material, precautions should be taken to avoid accidental release to water courses.

SECTION 9: Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

Appearance:	Clear yellow liquid
Odour:	Low odour
Odour threshold:	No data
pH:	Not applicable
Melting point:	No data
Boiling point:	275°C
Flashpoint:	20°C
Evaporation rate:	No data
Flammability (solid, gas):	Not applicable
Upper/lower flammability limits:	5.5-45% (methanol)
Vapour pressure:	12.3 kPa at 20°C (methanol)
Vapour density	no data
Relative density	1.1
Solubility in water:	Insoluble
Solubility in other solvents:	no data
Partition coefficient (log Kow)	no data
Autoignition temperature	no data
Decomposition temperature	no data

Viscosity	no data
Explosive properties	not classified as explosive
Oxidising properties	not classified as oxidising

9.2 Other information

VOC content, wt. %:	84 g/L
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SECTION 10: Stability and Reactivity**10.1 Reactivity**

Not considered to be a reactive material.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Contains alkoxysilanes which may hydrolyse in the presence of water to form highly flammable alcohols.

10.4 Conditions to avoid

Excessive heat, moisture.

10.5 Incompatible materials

Acids. Bases. Oxidizers

10.6 Hazardous decomposition products

None expected under normal conditions of use.

SECTION 11: Toxicological Information**11.1 Information on toxicological effects**

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

- | | |
|---|--|
| (a) acute toxicity | Not considered to be acutely toxic, based upon consideration of the components. Estimate ATE > 2000 mg/kg based on components |
| (b) skin corrosion/irritation | May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. |
| (c) serious eye damage/irritation | May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| (d) respiratory/skin sensitisation | Contains no substances classified as sensitising. |
| (e) germ cell mutagenicity | Contains no substances classified as germ cell mutagens. |
| (f) carcinogenicity | Contains no substances classified as carcinogens. |
| (g) reproductive toxicity | Contains no substances classified as reproductive toxins |
| (h) STOT-single exposure | Contains methanol at concentrations below thresholds of concern. May cause minor respiratory tract irritation. In high concentrations, vapours may cause drowsiness and dizziness. |
| (i) STOT-repeated exposure | Contains no substances classified for STOT RE effects. |
| (j) aspiration hazard | |

SECTION 12: Ecological Information

12.1 Toxicity

There are no components present at concentrations considered to be hazardous to the environment.

12.2 Persistence and degradability

The polymer is not expected to be readily biodegradable.

12.3 Bioaccumulative potential

None of the components are considered to be bioaccumulative.

12.4 Mobility in soil

The major components are not considered to be soluble in water.

12.5 Results of PBT and vPvB assessment

A PBT/vPvB assessment has not been carried out. However none of the components are expected to meet these criteria.

12.6 Other adverse effects

None known.

SECTION 13: Disposal Considerations**13.1 Waste treatment methods**

Waste should be treated as hazardous chemical waste in a manner that complies with local regulations. Incineration may be suitable. Advice should be sought from local agencies.

The containers should be rinsed thoroughly with water and can be disposed of as non-hazardous waste.

SECTION 14: Transport Information

This product is considered to be dangerous goods for transport because of its flammability.

	ADR	IMDG	ICAO
14.1 UN Number	1993	1993	1993
14.2 UN Proper shipping name	Flammable Liquid, n.o.s. (Siloxane resins),	Flammable Liquid, n.o.s. (Siloxane resins),	Flammable Liquid, n.o.s. (Siloxane resins),
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	II	II	II
14.5 Environmental hazards	None	None	None
14.6 Special precautions for user	None	None	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

All components are listed as existing substances in Europe

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information**Revision information:**

This is the first SDS prepared in accordance with EU Regulations.

List of Abbreviations used in this SDS:

CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008
DSD Dangerous Substances Directive 67/548/EEC
DPD Dangerous Preparations Directive 1999/45/EC
EC European Community/Commission
PBT Persistent, Bioaccumulative and Toxic
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
vPvB very Persistent, very Bioaccumulative

References:

CLP Regulation 1272/2008
EH40, 2007

Method used for classification of mixtures:

Ingredient based approaches

R Phrases and H Statements used in Section 3

R10 Flammable
R11 Highly flammable
R22 Harmful if swallowed
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed
R36/38 Irritating to eyes and skin
R37/38 Irritating to respiratory system and skin
R38 Irritating to skin
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R41 Risk of serious damage to eyes
R67 Vapours may cause drowsiness and dizziness
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin
H315 Toxic in contact with skin
H318 Causes serious eye damage
H319 Causes serious eye irritation
H331 Toxic if inhaled
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness
H370 Causes damage to organs

Training requirements for workers

No special training requirements.