NEW

Smart & Simple

Water-Based Epoxy **Grout**

# Manufacturer's Material Safety Data Sheet

# Hardener


*Smartified Solutions Ltd*

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**Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation") and REGULATION (EC) No 1272/2008 (CLP)**

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

### 1.1 Product identifier

**Product name:** **Epoxy Grout Hardener**
**Trade Name:** **SMART & SIMPLE**

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

Grout epoxy hardener for ceramic and stone tiles

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

**Company Name:** **Smartified Solutions Ltd.**

**Company Address:** **1 Greenland Street**
**Camden Town**
**London, NW1 0ND**
**UNITED KINGDOM**

**Company Tel:** **+44 (0)7961 068763**

**Contact Name:** **Ori Lamm**

**E-mail address of person responsible for this SDS:**

**info@smartified.co.uk**

### 1.4 Emergency telephone number

**Emergency telephone number (including hours of operation):**

**+44 (0)7961 068763**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance to Regulation (EC) No. 1272/2008 (CLP/GHS)**

| Product name | GHS Classification |
|---|---|
| **Grout Epoxy Hardener** | Skin corrosion/irritation, Category 2, H315<br>Skin sensitization, Category 1, H317<br>Serious eye damage/irritation, Category 2, H319<br>Hazardous to the aquatic environment, Chronic Category 3, H411 |

### 2.2 Label elements

**Labeling in accordance with Regulation 1272/2008 (CLP)**

**Hazard pictograms:**

**Signal word: WARNING**

**Hazard statements:**

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

**Precautionary Statements:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 Take off contaminated clothing and wash before reuse.

**Supplemental Hazard Statements**:
None

### 2.3 Other hazards

None known.

## SECTION 3: Composition / Information on ingredients

**Mixture:**

| Product/ Ingredient name | Identifiers | % | GHS Classification |
|---|---|---|---|
| **Diglycidyl ether of Bisphenol A** | CAS number: 25068-38-6<br>EC number: 500-033-5<br>Index No: 603-074-00-8 | 1.5 - 2.5 % | Acute Toxicity, Oral, Category 4, H302<br>Skin corrosion/irritation, Category 2, H315<br>Skin sensitization, Category 1, H317<br>Serious eye damage/irritation, Category 2, H319<br>Hazardous to the aquatic environment, Chronic Category 2, H411 |
| **Polypropylene glycol bis(2-1minopropyl ether)** | CAS number: 9046-10-0<br>EC number: n/a<br>Index No: n/a | 0.5 - 1.5% | Acute Tox, Oral, Cat 4, H302<br>Skin Corr, Cat 1B H314 |
| **Neodecanoic acid 2 oxiranylmethyl ester** | CAS number: 26761-45-5<br>EC number: n/a<br>Index No: n/a | 0 - 0.5% | Skin sensitization, Category 1, H317<br>Hazardous to the aquatic environment, Chronic Category 2, H411 |

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in section 8.**
**See section 16 for the full text of the H-statements and R-phrases declared above.**

## SECTION 4: First Aid measures

### 4.1 Description of first aid measures

**Eyes contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

**Skin contact:** Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Ingestion:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**4.2 Most important symptoms and effects, both acute and delayed**
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**
If any symptoms are observed, contact a physician and give them this SDS sheet.

## SECTION 5: Firefighting Measures

**5.1 Extinguishing media**

Suitable: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable: None known

**5.2 Special hazards arising from the substance or mixture**
Carbon dioxide, metal oxide/oxides, silicon oxides may be formed.

**5.3 Advice for firefighters**
Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**
No data available.

## SECTION 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. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 protective equipment. 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 or air).

**6.3 Methods and materials for containment and cleaning up**
Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**6.4 Reference to other sections**
See Section 1 for emergency contact information.
See Section 13 for disposal information.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

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. See also Section 8 for additional information on hygiene measures.

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

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. Store to minimize dust generation. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure Control / Personal Protection

### 8.1 Control parameters

**Occupational exposure limit values:**

| Ingredient name | CAS Number | Occupational exposure limits | Source |
|---|---|---|---|
| **Diglycidyl ether of Bisphenol A** | 25068-38-6 | No occupational exposure limit values | UK. EH40 WEL – Workplace Exposure Limits |
| **Polypropylene glycol bis(2-1minopropyl ether)** | 9046-10-0 | No occupational exposure limit values | UK. EH40 WEL – Workplace Exposure Limits |
| **Neodecanoic acid 2 oxiranylmethyl ester** | 26761-45-5 | No occupational exposure limit values | UK. EH40 WEL – Workplace Exposure Limits |

### 8.2 Exposure controls

**Appropriate Engineering Measures**

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Engineering controls may be required to control the primary or secondary risks associated with this product.

**Personal Protective Measures**

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Thermal hazards: None known.

**Environmental exposure controls:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9: Physical and Chemical Properties

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance: | Paste |
| Colour: | Light brown |
| Odour: | Light ammonia |
| Odour threshold: | No data available |
| pH: | No data available |
| Melting point/Freezing point: | > 260°C |
| Initial boiling point and boiling range: | No data available |
| Flash point: | No data available |
| Evaporation rate: | No data available |
| Flammability (solid, gas): | No data available |
| Upper/lower flammability or explosive limits: | No data available |
| Vapour pressure (at 760 mmHg, @20°C): | No data available |
| Vapour density (air=1): | No data available |
| Relative Density @25°C: | 1.4 – 1.5 gr/ml |
| Solubility(ies): | Slightly in water |
| Partition coefficient n-octanol/water: | No data available |
| Auto-ignition temperature: | >300 °C |
| Decomposition temperature: | No data available |
| Viscosity: | 300 – 500,000 CPs |
| Explosive properties: | No data available |
| Oxidising properties: | No data available |

**9.2 Other information:** None known

## SECTION 10: Stability and Reactivity

**10.1 Reactivity**
No data available

**10.2 Chemical stability**
Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**
No data available

**10.4 Conditions to avoid**
Avoid contact with incompatible materials (see below).

**10.5 Incompatible materials**
Materials to avoid include; powerful oxidizing agents such as fluoride, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen defluoride. Contact of these materials may cause fire and/or explosions. Silica dissolves in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.

**10.6 Hazardous Decomposition products:**
Will not spontaneously occur. Silica-containing respirable dust particles may be generated by handling. In the event of fire: see section 5

## SECTION 11: Toxicological Information

**11.1 Information on toxicological effects**

**Routes of exposure** Dermal contact. Eye contact. Inhalation. Ingestion.

**Acute toxicity:**

| Product/ingredient name | Test | Species | Dose |
|---|---|---|---|
| Diglycidyl ether of Bisphenol A | $LD_{50}$ Oral<br>$LC_{50}$ Inhalation<br>$LD_{50}$ Dermal | Rat<br>Rat<br>- | 1000 - 5000 mg/kg<br>-<br>1200 – 20000 mg/kg |
| Polypropylene glycol bis(2-1minopropyl ether) | $LD_{50}$ Oral<br>$LC_{50}$ Inhalation<br>$LD_{50}$ Dermal | Rat<br>-<br>Rabbit | 2880 mg/kg<br>-<br>2980 mg/kg |
| Neodecanoic acid 2 oxiranylmethyl ester | $LD_{50}$ Oral<br>$LC_{50}$ Inhalation<br>$LD_{50}$ Dermal | Rat<br>Rat<br>Rat | -<br>-<br>- |

**Skin corrosion/irritation:** Based upon information available on the known components, the product may cause moderate skin irritation.

**Serious eye damage/eye irritation:** Based upon information available on the known components, the product is expected to cause eye irritation.

**Respiratory sensitization:** Based upon information available on the known components, the product is not expected to cause respiratory sensitization.

**Skin sensitization:** Based upon information available on the known components, the product is expected to cause skin sensitization.

**Germ cell mutagenicity:** Based upon information available on the known components, the product is not anticipated to be a mutagen.

| | |
|---|---|
| **Carcinogenicity:** | Based upon information available on the known components, the product is not expected to be a carcinogen. |
| **Reproductive toxicity:** | Based upon information available on the known components, the product is not anticipated to cause reproductive toxicity. |
| **Specific target organ toxicity - Single exposure:** | Based upon information available on the known components, the product is not expected to cause specific target organ toxicity after single exposure. |
| **Specific target organ toxicity- Repeat exposure:** | Based upon information available on the known components, the product is not expected to cause specific target organ toxicity after repeated exposure. |
| **Aspiration hazard:** | Based upon information available on the known components, the product is not anticipated to be an aspiration hazard. |
| **Other effects:** | No other known significant effects or critical hazards |

## SECTION 12: Ecological Information

**12.1 Toxicity:**

| Substance name | Toxicity to fish / other aquatic invertebrates |
|---|---|
| Diglycidyl ether of Bisphenol A | **Toxicity to fish mortality**<br>LC50 – no data available<br><br>**Toxicity to daphnia and other aquatic invertebrates**<br>LC50 – no data available<br><br>**Toxicity to algae**<br>EC50 – no data available |
| Polypropylene glycol bis(2-1minopropyl ether) | **Toxicity to fish mortality**<br>LC50 – no data available<br><br>**Toxicity to daphnia and other aquatic invertebrates**<br>LC50 – no data available<br><br>**Toxicity to algae**<br>EC50 – no data available |
| Neodecanoic acid 2 oxiranylmethyl ester | **Toxicity to fish mortality**<br>LC50 – no data available<br><br>**Toxicity to daphnia and other aquatic invertebrates**<br>LC50 – no data available<br><br>**Toxicity to algae**<br>EC50 – no data available |

**12.2 Persistence and Degradability:**
No data available

**12.3 Bioaccumulative potential:**
No data available

**12.4 Mobility in soil:**
No data available

**12.5 Results of PBT and vPvB assessment:**
No data available.

**12.6 Other adverse effects:**
Harmful to aquatic life with long lasting effects.

**12.7 Additional information:**
None available

## SECTION 13: Disposal Considerations

**13.1 Waste treatment methods:**
**Hazardous waste:** YES

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of waste materials in accordance with applicable federal, state, and local laws and regulations.

**Contaminated packaging**
Dispose of as unused product.

## SECTION 14: Transport Information

**International transport regulations**
**14.1 UN number:**
ADR/RID: Not regulated IMDG: Not regulated IATA: Not regulated

**14.2 Proper shipping name:**
ADR/RID: Not regulated under ADR

IMDG: Not regulated under IMDG

IATA: Not regulated under IATA

**14.3 Transport hazard class(es)**
ADR/RID: Not applicable IMDG: Not applicable IATA: Not applicable

**14.4 Packing group**
ADR/RID: Not applicable IMDG: Not applicable IATA: Not applicable

**14.5 Environmental hazard**
Marine Pollutant: Yes

**14.6 Special precautions for user**
No data available

**14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code**
No data available

## SECTION 15: Regulatory Information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
This safety datasheet complies with the requirements of:
EU Directives 67/548/EEC and 1999/45/EC (including amendments)
EU Regulation (EC) No.1907/2006 (REACH), No 1272/2008 (CLP)

**15.2 Chemical safety assessment**
No data available

## SECTION 16: Other Information

**Full text of H-Statements referred to under sections 2 and 3.**

| | |
|---|---|
| Acute Tox. | Acute toxicity |
| Aquatic chronic | Chronic aquatic toxicity |
| Eye Irrit. | Eye irritation |
| Skin Corr. | Skin corrosion |
| Skin Irrit. | Skin irritation |
| Skin Sens. | Skin sensitization |

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long-lasting effects. |
| H412 | Harmful to aquatic life with long-lasting effects |

**Training advice:** Before using/handling the product one must read carefully present MSDS.

**Abbreviations and acronyms:**

| | |
|---|---|
| CAS: | Chemical Abstracts Service (division of the American Chemical Society) |
| IMDG: | International Maritime Code for Dangerous Goods |
| IATA: | International Air Transport Association |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals |
| EC50: | Half maximal effective concentration |
| LC50: | Lethal concentration, 50 percent |
| LD50: | Lethal dose, 50 percent |

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