1 Identification of substance

- **Product details**
  - **Trade name:** SPX 11100 Resin
  - **Application of the substance / the preparation** Epoxy resin

- **Manufacturer/Supplier:**
  - GURIT (UK) Ltd
    - St. CROSS BUSINESS PARK
    - NEWPORT I.O.W.
    - PO30 5WU
    - UNITED KINGDOM
    - TEL: +44 (0) 1983 828000
    - FAX: +44 (0) 1983 828100
  - GURIT (Canada) Inc.
    - 175, rue Pélaudeau
    - Magog (Québec)
    - J1X 5G9
    - Canada
    - T: +1 819 847 2182
    - F: +1 819 847 2572

  For SDS information contact simon.rhodes@gurit.com

- **Information department:** Product safety department.
- **Emergency information:** Contact as above

2 Composition/Data on components

- **Chemical characterization**
  - **Description:** Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components</th>
<th>Percentages</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6 bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)</td>
<td>50-100%</td>
</tr>
<tr>
<td>2425-79-8 1,4-bis(2,3-epoxypropoxy)butane</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>aluminium powder (stabilized)</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>68609-97-2 C12/C14 Alkylglycidylether</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard description:**
  - Xi Irritant
  - N Dangerous for the environment

- **Information pertaining to particular dangers for man and environment:**
  The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
  Irritating to eyes and skin.
  May cause sensitization by skin contact.
  Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
  Contains epoxy constituents. See information supplied by the manufacturer.

- **Classification system:**
  The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
Trade name: SPX 11100 Resin

4 First aid measures

- **After inhalation:**
  Supply fresh air and to be sure call for a doctor.
  In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
  Do not induce vomiting; immediately call for medical help.
  A person vomiting while lying on their back should be turned onto their side.
  Administer medicinal carbon
  Rinse out mouth and then drink plenty of water.

5 Fire fighting measures

- **Suitable extinguishing agents:**
  Water haze
  Foam
  Fire-extinguishing powder
  Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the material, its products of combustion or resulting gases:**
  Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
  Wear self-contained respiratory protective device.
  Wear fully protective suit.
- **Additional information**
  Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
  Inform respective authorities in case of seepage into water course or sewage system.
  Do not allow to enter sewers/surface or ground water.
- **Measures for cleaning/collecting:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Ensure adequate ventilation.
7 Handling and storage

· Handling:
  · Information for safe handling:
  Store in cool, dry place in tightly closed receptacles.
  Keep away from heat and direct sunlight.
  · Information about protection against explosions and fires: No special measures required.

· Storage:
  · Requirements to be met by storerooms and receptacles: No special requirements.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions:
  Keep receptacle tightly sealed.
  Store in cool, dry conditions in well sealed receptacles.
  Protect from heat and direct sunlight.

8 Exposure controls and personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Components with limit values that require monitoring at the workplace:
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists that were valid during the creation were used as basis.

· Personal protective equipment:
  · General protective and hygienic measures:
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
  Avoid contact with the eyes and skin.
  · Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
  · Protection of hands:

  Protective gloves

  Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

  · Penetration time of glove material
  The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

  · For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
  Nitrile rubber, NBR

  · As protection from splashes gloves made of the following materials are suitable:
  Nitrile rubber, NBR

  · Eye protection:

  Tightly sealed goggles
9 Physical and chemical properties

<table>
<thead>
<tr>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form:</strong> Pasty</td>
</tr>
<tr>
<td><strong>Color:</strong> According to product specification</td>
</tr>
<tr>
<td><strong>Odor:</strong> Weak, characteristic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Change in condition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Melting point/Melting range:</strong> Undetermined.</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range:</strong> 266°C (511°F)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash point:</th>
</tr>
</thead>
<tbody>
<tr>
<td>140°C (284°F)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ignition temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>460.0°C (860°F)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Auto igniting:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product is not selfigniting.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Danger of explosion:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product does not present an explosion hazard.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vapor pressure at 20°C (68°F):</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1 hPa</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Density at 20°C (68°F):</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 g/cm³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solubility in / Miscibility with Water:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not miscible or difficult to mix.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solvent content:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic solvents: 0.0 %</td>
</tr>
<tr>
<td>Water: 0.0 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solids content:</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 %</td>
</tr>
</tbody>
</table>

10 Stability and reactivity

<table>
<thead>
<tr>
<th>Thermal decomposition / conditions to be avoided:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No decomposition if used according to specifications.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Materials to be avoided:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dangerous reactions No dangerous reactions known.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dangerous products of decomposition:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger of toxic pyrolysis products.</td>
</tr>
</tbody>
</table>

11 Toxicological information

<table>
<thead>
<tr>
<th>Acute toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LD/LC50 values that are relevant for classification:</strong></td>
</tr>
<tr>
<td><img src="image.jpg" alt="Image" /></td>
</tr>
</tbody>
</table>

| Oral LD50 10000 mg/kg (rat) |
| Dermal LD50 2000 mg/kg (rat) |

<table>
<thead>
<tr>
<th>Primary irritant effect:</th>
</tr>
</thead>
<tbody>
<tr>
<td>on the skin: Irritant to skin and mucous membranes.</td>
</tr>
<tr>
<td>on the eye: Irritating effect.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sensitization:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitization possible through skin contact.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional toxicological information:</th>
</tr>
</thead>
<tbody>
<tr>
<td>The product shows the following dangers according to internally approved calculation methods for preparations:</td>
</tr>
</tbody>
</table>
Trade name: SPX 11100 Resin

12 Ecological information

- Additional ecological information:

  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- Product:
  - Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
  - Recommendation:
    Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- DOT regulations:
  - Hazard class: 9
  - Identification number: UN3077
  - Packing group: III
  - Proper shipping name (technical name): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
  - Label: 9
  - Remarks: Special marking with the symbol (fish and tree).

- Land transport ADR/RID (cross-border):
  - ADR/RID class: 9 Miscellaneous dangerous substances and articles
  - Danger code (Kemler): 90
  - UN-Number: 3077
  - Packaging group: III
  - Special marking: Symbol (fish and tree)
  - Description of goods: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
Material Safety Data Sheet
acc. to ISO/DIS 11014

Trade name: SPX 11100 Resin

Maritime transport IMDG:

- IMDG Class: 9
- UN Number: 3077
- Label: 9
- Packaging group: III
- Marine pollutant: Yes (fish and tree)
- Propper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))

Air transport ICAO-TI and IATA-DGR:

- ICAO/IATA Class: 9
- UN/ID Number: 3077
- Label: 9
- Special marking: Symbol (fish and tree)
- Packaging group: III
- Propper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))

15 Regulations

- Section 355 (extremely hazardous substances):
  None of the ingredient is listed.
- Section 313 (Specific toxic chemical listings):
  None of the ingredients is listed.
- TSCA (Toxic Substances Control Act):
  - 25068-38-6 bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
  - 2425-79-8 1,4-bis(2,3-epoxypropoxy)butane
  - 25852-37-3 polymer of polymethylmethacrylate and butyl acrylate
  - 7631-86-9 silicon dioxide, chemically prepared
  - 68609-97-2 C12/C14 Alkylglycidylether
  - 38668-46-1 2,4-DIAMINO-6 (2'- METHYLIMIDAZOLEYL-(1')) ETHYL-S-TRIAZINE
  - 101-42-8 fenuron
  - 471-34-1 calcium carbonate
- Proposition 65
  - Chemicals known to cause cancer:
    None of the ingredients is listed.
  - Chemicals known to cause reproductive toxicity for females:
    None of the ingredients is listed.
**Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

**Cancerogenity categories**

**EPA (Environmental Protection Agency)**
None of the ingredients is listed.

**IARC (International Agency for Research on Cancer)**
7631-86-9 silicon dioxide, chemically prepared

**NTP (National Toxicology Program)**
None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.

**MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

**Product related hazard informations:**
The product has been classified and marked in accordance with directives on hazardous materials.

**Hazard symbols:**
- Xi Irritant
- N Dangerous for the environment

**Hazard-determining components of labelling:**
- bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \( \leq 700 \))
- 1,4-bis(2,3-epoxypropoxy)butane
- C12/C14 Alkylglycidylether

**Risk phrases:**
- Irritating to eyes and skin.
- May cause sensitization by skin contact.
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Safety phrases:**
- Keep container tightly closed and dry.
- Do not breathe gas/fumes/vapour/spray.
- Avoid contact with skin.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Wear suitable gloves and eye/face protection.
- Use appropriate container to avoid environmental contamination.

**Special labeling of certain preparations:**
Contains epoxy constituents. See information supplied by the manufacturer.

**National regulations:**

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

---

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 8)
Trade name: SPX 11100 Resin

- Department issuing MSDS: Health, Safety & Environmental department.
- Contact: SIMON RHODES
- * Data compared to the previous version altered.