SAFETY DATA SHEET
PLASTIC STEEL LIQUID (B) RESIN

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

1.1. Product identifier

Product name: PLASTIC STEEL LIQUID (B) RESIN
Product number: X0009

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

Identified uses: Resin.

1.3. Details of the supplier of the safety data sheet

Supplier: ITW Performance Polymers
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82
353(61)771500
353(61)471285
mail@itwpp.com

1.4. Emergency telephone number

Emergency telephone: +44(0)1235 239 670 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards: Not Classified
Health hazards: Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317
Environmental hazards: Aquatic Chronic 2 - H411

Human health: The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.

2.2. Label elements

Pictogram

Signal word: Warning
PLASTIC STEEL LIQUID (B) RESIN

Hazard statements
- 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.

Precautionary statements
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P302+P352 IF ON SKIN: Wash with plenty of 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.
- P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

Supplemental label information
- EUH205 Contains epoxy constituents. May produce an allergic reaction.

Contains
- EPOXY RESIN (Number average MW <= 700 )

Supplementary precautionary statements
- P261 Avoid breathing vapour/ spray.
- P264 Wash contaminated skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P321 Specific treatment (see medical advice on this label).
- P332+P313 If skin irritation occurs: Get medical advice/ attention.
- P333+P313 If eye irritation persists: Get medical advice/ attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P391 Collect spillage.
- P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>EPOXY RESIN (Number average MW &lt;= 700 )</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 25068-38-6</td>
<td>EC number: 500-033-5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2 - H315</td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CARBON BLACK</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 1333-86-4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Classified</td>
</tr>
</tbody>
</table>

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
- Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
PLASTIC STEEL LIQUID (B) RESIN

Inhalation
Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

Ingestion
Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact
Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.

4.2. Most important symptoms and effects, both acute and delayed
General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

4.3. Indication of any immediate medical attention and special treatment needed
Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture
Specific hazards
Irritating gases or vapours.

5.3. Advice for firefighters
Protective actions during firefighting
Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

6.2. Environmental precautions
Environmental precautions
Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections
Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage
PLASTIC STEEL LIQUID (B) RESIN

7.1. Precautions for safe handling

**Usage precautions**
Use only in well-ventilated areas. Open drum carefully as content may be under pressure. Keep away from heat, sparks and open flame. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions**
Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10).

7.3. Specific end use(s)

**Specific end use(s)**
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Long-term exposure limit (8-hour TWA)</th>
<th>Ingredient comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARBON BLACK</td>
<td>3.5 mg/m³</td>
<td>No exposure limits known for ingredient(s).</td>
</tr>
</tbody>
</table>

**Ingredient comments**

**EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)**

<table>
<thead>
<tr>
<th>DNEL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Workers - Dermal; Short term systemic effects: 8.33 mg/kg/day</td>
<td></td>
</tr>
<tr>
<td>Workers - Inhalation; Short term systemic effects: 12.25 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

**Protective equipment**

<table>
<thead>
<tr>
<th>Appropriate engineering controls</th>
<th>Provide adequate general and local exhaust ventilation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye/face protection</td>
<td>Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Wear protective gloves made of the following material: Rubber or plastic. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 8 hours.</td>
</tr>
<tr>
<td>Other skin and body protection</td>
<td>Wear apron or protective clothing in case of contact.</td>
</tr>
<tr>
<td>Hygiene measures</td>
<td>Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving workplace. Promptly remove any clothing that becomes wet or contaminated.</td>
</tr>
</tbody>
</table>
PLASTIC STEEL LIQUID (B) RESIN

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Viscous liquid.

Colour
Dark. Grey.

Odour
Slight.

pH
pH (concentrated solution): 7.0 @ 20 ºC

Melting point
n/d°C

Initial boiling point and range
>260°C @

Flash point
> 204°C

Vapour pressure
0.03mmHg @ °C

Relative density
2.80 @ 20 °C°C

Solubility(ies)
Slightly soluble in water.

Auto-ignition temperature
>300°C

9.2. Other information
Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity

10.2. Chemical stability
Stability
Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Not available.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials
Materials to avoid
Avoid contact with the following materials: Strong oxidising agents. Strong acids. Amines.

10.6. Hazardous decomposition products
Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
PLASTIC STEEL LIQUID (B) RESIN

Skin contact: Irritating to skin. Prolonged contact may cause redness, irritation and dry skin. May cause sensitisation by skin contact. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact: Irritating to eyes.

Acute and chronic health hazards: The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.

Route of entry: Inhalation Ingestion.

SECTION 12: Ecological Information

Ecotoxicity: Avoid release to the environment.

12.1. Toxicity: Very toxic to aquatic organisms.

12.2. Persistence and degradability

Persistence and degradability: There are no data on the degradability of this product.

12.3. Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility In soil

Mobility: Do not discharge into drains or watercourses or onto the ground.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects: Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information: When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class: 08 04 99

SECTION 14: Transport information

General: No other information known.

14.1. UN number

UN No. (ADR/RID): 3082
UN No. (IMDG): 3082
UN No. (ICAO): 3082

14.2. UN proper shipping name
PLASTIC STEEL LIQUID (B) RESIN

**Proper shipping name**
- **(ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ))
- **(IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ))
- **(ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ))
- **(ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ))

**14.3. Transport hazard class(es)**
- **ADR/RID class** 9
- **ADR/RID label** 9
- **IMDG class** 9
- **ICAO class/division** 9

**Transport labels**

**14.4. Packing group**
- **ADR/RID packing group** III
- **IMDG packing group** III
- **ICAO packing group** III

**14.5. Environmental hazards**
Environmentally hazardous substance/marine pollutant

**14.6. Special precautions for user**
- **EmS** F-A, S-F
- **Emergency Action Code** •3Z
- **Hazard Identification Number (ADR/RID)** 90
- **Tunnel restriction code** (E)

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information required.

SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
PLASTIC STEEL LIQUID (B) RESIN

EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

<table>
<thead>
<tr>
<th>Revision date</th>
<th>03/04/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision</td>
<td>14</td>
</tr>
<tr>
<td>Supersedes date</td>
<td>28/04/2017</td>
</tr>
<tr>
<td>Hazard statements in full</td>
<td></td>
</tr>
<tr>
<td>H315 Causes skin irritation.</td>
<td></td>
</tr>
<tr>
<td>H317 May cause an allergic skin reaction.</td>
<td></td>
</tr>
<tr>
<td>H319 Causes serious eye irritation.</td>
<td></td>
</tr>
<tr>
<td>H411 Toxic to aquatic life with long lasting effects.</td>
<td></td>
</tr>
</tbody>
</table>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.