SAFETY DATA SHEET
Chockfast Orange Resin

1. Identification

Product identifier
Product name
Chockfast Orange Resin
Product number
1011R, 1010U resin, 1020U resin

Recommended use of the chemical and restrictions on use
Application
Resin.

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
customerservice.shannon@itwpp.com

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

2. Hazard(s) identification

Classification of the substance or mixture
Physical hazards
Not Classified
Health hazards
Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317
Environmental hazards
Aquatic Chronic 2 - H411

Human health
The product contains a sensitizing substance. May cause sensitization or allergic reactions in sensitive individuals.

Environmental
The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Label elements
Hazard symbols

Signal word
Warning

Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
Chockfast Orange Resin

Precautionary statements

P261 Avoid breathing vapor/spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing must not be allowed out of the workplace.
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.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If skin 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.

Contains

bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN);EPOXY RESIN

Other hazards

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

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE</td>
<td>30-60%</td>
</tr>
<tr>
<td>Quartz (&lt;10µm)</td>
<td>30-60%</td>
</tr>
<tr>
<td>REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN);EPOXY RESIN</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

Classification

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE</td>
<td>Skin Irrit. 2 - H315, Eye Irrit. 2A - H319, Skin Sens. 1 - H317, Aquatic Chronic 2 - H411</td>
</tr>
<tr>
<td>Quartz (&lt;10µm)</td>
<td>STOT RE 2 - H373</td>
</tr>
<tr>
<td>REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN);EPOXY RESIN</td>
<td>Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1 - H317, Aquatic Chronic 2 - H411</td>
</tr>
</tbody>
</table>
Chockfast Orange Resin

<table>
<thead>
<tr>
<th>FIBROUS GLASS</th>
<th>1-5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 65997-17-3</td>
<td></td>
</tr>
</tbody>
</table>

**Classification**
- Skin Irrit. 2 - H315
- Eye Irrit. 2A - H319
- STOT SE 3 - H335

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

### 4. First-aid measures

#### Description of first aid measures

**General information**
Avoid contact with eyes. Consult a physician for specific advice.

**Inhalation**
Remove affected person from source of contamination. If throat irritation or coughing persists, proceed as follows. Get medical attention. Show this Safety Data Sheet to the medical personnel.

**Ingestion**
Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. 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. Show this Safety Data Sheet to the medical personnel.

**Skin Contact**
Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

**Eye contact**
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

#### 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.

#### Indication of immediate medical attention and special treatment needed

**Notes for the doctor**
No specific recommendations. If in doubt, get medical attention promptly.

### 5. Fire-fighting measures

**Extinguishing media**

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

**Special hazards arising from the substance or mixture**

**Specific hazards**
Irritating gases or vapors.

**Advice for firefighters**

**Protective actions during firefighting**
Avoid breathing fire gases or vapors. Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters**
Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
Wear protective clothing as described in Section 8 of this safety data sheet. Avoid spilling. Avoid contact with skin and eyes.
Chockfast Orange Resin

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.

Methods and material for containment and cleaning up
Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Absorb spillage with non-combustible, absorbent material.

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

7. Handling and storage

Precautions for safe handling
Wear protective clothing as described in Section 8 of this safety data sheet. Do not eat, drink or smoke when using the product. 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. Provide adequate ventilation.

Conditions for safe storage, including any incompatibilities
Store in tightly-closed, original container in a well-ventilated place. Store away from incompatible materials (see Section 10).

Specific end use(s)
The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Ingredient comments
WEL = Workplace Exposure Limits

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation.

Eye/face protection
The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with OSHA 1910.133.

Hand protection
To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. The selected gloves should have a breakthrough time of at least 8 hours. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Gloves made from the following material may provide suitable chemical protection: Butyl rubber. Nitrile rubber. Neoprene. Polyvinyl chloride (PVC).

Other skin and body protection
Wear apron or protective clothing in case of contact.

Hygiene measures
Provide eyewash station and safety shower. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.
Chockfast Orange 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 OSHA 1910.134.

### 9. Physical and chemical properties

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Viscous liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Orange.</td>
</tr>
<tr>
<td>Odor</td>
<td>No characteristic odor.</td>
</tr>
<tr>
<td>pH</td>
<td>pH (concentrated solution): 7</td>
</tr>
<tr>
<td>Flash point</td>
<td>254°C Closed cup.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>0.03 mm Hg @ °C</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.6 @ 20°C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>300°C</td>
</tr>
<tr>
<td>Other information</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity

**Reactivity**

**Stability**
Stable at normal ambient temperatures and when used as recommended.

**Possibility of hazardous reactions**
Not available.

**Conditions to avoid**
Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time.

**Materials to avoid**

**Hazardous decomposition products**
Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 11. Toxicological information

**Information on toxicological effects**

**Skin Contact**
Irritating to skin. May cause sensitisation by skin contact. May cause sensitization or allergic reactions in sensitive individuals.

**Eye contact**
Irritating to eyes.

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

**Route of exposure**
Inhalation Ingestion.

### 12. Ecological information
Chockfast Orange Resin

Ecotoxicity
The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Avoid releasing into the environment.

Toxicity
Very toxic to aquatic organisms.

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

Bioaccumulative potential
No data available on bioaccumulation.

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

Other adverse effects
Not available.

13. Disposal considerations

Waste treatment methods

General information
Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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 09*

14. Transport information

Road transport notes
Refer to the Dangerous Goods List for information on any Special Provisions 375.

Rail transport notes
Refer to the Dangerous Goods List for information on any Special Provisions 375.

Sea transport notes
Refer to the Dangerous Goods List for information on any Special Provisions IMDG 2.10.2.7.

Air transport notes
Refer to the Dangerous Goods List for information on any Special Provisions 375.

UN Number

UN No. (TDG) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082
UN No. (DOT) Not applicable.

UN proper shipping name

Proper shipping name (TDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ))

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ))

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ))

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)
Chockfast Orange Resin

TDG class 9
TDG label(s) 9
IMDG Class 9
ICAO class/division 9

Transport labels

DOT transport labels
No transport warning sign required.

Packing group
TDG Packing Group III
IMDG packing group III
ICAO packing group III
DOT packing group Not applicable.

Environmental hazards
Environmentally Hazardous Substance

Special precautions for user
EmS F-A, S-F

DOT reportable quantity Not applicable.
DOT TIH Zone Not applicable.

15. Regulatory information

16. Other information

Revision comments Revised formulation.
Revision date 9/11/2019
Revision 14
Supersedes date 5/17/2019

Hazard statements in full
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

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.