Performance Polymers

SAFETY DATA SHEET
Chockfast Orange Resin

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

1.1. Product identifier
Product name Chockfast Orange Resin
Product number 1011R, 1010U resin, 1020U resin
REACH registration notes CAS 25068-38-6: 01-2119456619-26-XXXX

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
customerservice.shannon@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 a sensitising substance. May cause sensitisation 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.

2.2. Label elements

Hazard pictograms

Signal word Warning
Chockfast Orange 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.
P501 Dispose of contents/ container in accordance with national regulations.

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

Contains
EPOXY RESIN (Number average MW <= 700 ), REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN);EPOXY RESIN

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.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

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>
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<tr>
<td>REACH registration number: 01-2119456619-26-0000</td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
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<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN);EPOXY RESIN</th>
<th>1-5%</th>
</tr>
</thead>
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<tr>
<td>CAS number: 28064-14-4</td>
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<tr>
<td>Classification</td>
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<td>Skin Irrit. 2 - H315</td>
<td></td>
</tr>
<tr>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Aquatic Chronic 2 - H411</td>
<td></td>
</tr>
</tbody>
</table>

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

SECTION 4: First aid measures

4.1. 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.

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. 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.

SECTION 6: Accidental release measures

6.1. 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.

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
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.
### Chockfast Orange Resin

#### 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

##### 7.1. Precautions for safe handling

| Usage precautions | 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. |

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

| Storage precautions | Store in tightly-closed, original container in a 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

| Ingredient comments | WEL = Workplace Exposure Limits |

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

| DNEL | Workers - Dermal; Short term systemic effects: 8.33 mg/kg/day  
      | Workers - Inhalation; Short term systemic effects: 12.25 mg/m³ |

##### 8.2. Exposure controls

| Protective equipment | Provide adequate general and local exhaust ventilation. |

| Appropriate engineering controls | The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166. |

| Hand protection | 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. 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 European Standard
EN140.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance
Viscous liquid.

Colour
Orange.

Odour
No characteristic odour.

pH
pH (concentrated solution): 7

Flash point
254°C Closed cup.

Vapour pressure
0.03 mm Hg @ °C

Relative density
1.6 @ 20°C

Auto-ignition temperature
300°C

9.2. Other information
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.

10.5. Incompatible materials
Materials to avoid

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Skin contact
Irritating to skin. May cause sensitisation by skin contact. May cause sensitisation or allergic
reactions in sensitive individuals.
Chockfast Orange Resin

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 exposure
Inhalation Ingestion.

SECTION 12: Ecological information

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.

12.1. Toxicity
Very toxic to aquatic organisms.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Acute aquatic toxicity
Acute toxicity - fish LC₅₀, 96 hour: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: 1.8 mg/l, Daphnia magna
Acute toxicity - aquatic plants EC₅₀, 72 hour: 11 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms IC₅₀, 18 hour: >42.6 mg/l, Activated sludge

Chronic aquatic toxicity
Chronic toxicity - aquatic invertebrates NOEC, 21 day: 0.3 mg/l, Daphnia magna

REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN);EPOXY RESIN

Acute aquatic toxicity
Acute toxicity - fish LC₅₀, 96 hours: 1-10 mg/l, Fish
Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1-10 mg/l, Daphnia magna
Acute toxicity - aquatic plants IC₅₀, 72 hours: 1-10 mg/l, Algae

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

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Persistence and degradability
The product is not readily biodegradable.

Biodegradation
Water - Degradation 12%: 28 day

12.3. Bioaccumulative potential
Chockfast Orange Resin

Bioaccumulative potential
No data available on bioaccumulation.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Bioaccumulative potential
BCF: 100 - 3000,

Partition coefficient
log Pow: 3.242

REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN);EPOXY RESIN

Partition coefficient
log Pow: 3-5

12.4. Mobility in soil

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

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Mobility
Not considered mobile.

Adsorption/desorption coefficient
Supplier's information. Water - Koc: 1800 - 4400 @ °C

Henry's law constant
4.93E-05 Pa m³/mol @ 25°C

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.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Results of PBT and vPvB assessment
This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects
Not available.

SECTION 13: Disposal considerations

13.1. 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*

SECTION 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.
Chockfast Orange Resin

Air transport notes
Refer to the Dangerous Goods List for information on any Special Provisions A197.

14.1. UN number
UN No. (ADR/RID) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082
UN No. (ADN) 3082

14.2. UN proper shipping name
Proper shipping name (ADR/RID) 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 (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 classification code M6
ADR/RID label 9
IMDG class 9
ICAO class/division 9
ADN class 9

Transport labels

14.4. Packing group
ADR/RID packing group III
IMDG packing group III
ICAO packing group III
ADN packing group III

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user
EmS F-A, S-F
ADR transport category 3
Chockfast Orange Resin

Emergency Action Code •3Z
Hazard Identification Number (ADR/RID) 90
Tunnel restriction code (-)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture


15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 17/05/2019
Revision 13
Supersedes date 05/11/2018
Hazard statements in full 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.

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.