1. Identification

Product identifier
Product name DFense Blok Fast Cure Resin

Recommended use of the chemical and restrictions on use
Application Two-component, epoxy-based adhesive.

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

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 Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 2 - H411

Label elements
Pictogram

Signal word Warning
Hazard statements H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
DFense Blok Fast Cure 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.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: 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

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

3. Composition/information on ingredients

Mixtures

REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN);EPOXY RESIN
10-30%
CAS number: 28064-14-4

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

EPOXY RESIN (Number average MW <= 700)
10-30%
CAS number: 25068-38-6

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

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

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air at once. If breathing stops, provide artificial respiration.

Ingestion Do not induce vomiting. Consult a physician for specific advice. Never give anything by mouth to an unconscious person.

Skin Contact Remove contaminated clothing immediately and wash skin with soap and water. 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.

5. Fire-fighting measures
DFense Blok Fast Cure Resin

Extinguishing media

Suitable extinguishing media
Extinguish with carbon dioxide or dry powder.

Unsuitable extinguishing media
Foam. Water.

Special hazards arising from the substance or mixture

Hazardous combustion products
Does not decompose when used and stored as recommended.

Advice for firefighters

Protective actions during firefighting
Evacuate area of unprotected personnel. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters
Use air-supplied respirator, gloves and protective goggles.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
For personal protection, see Section 8.

Environmental precautions
Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up
Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water.

7. Handling and storage

Precautions for safe handling

Usage precautions
Provide adequate ventilation. Avoid inhalation of vapors.

Conditions for safe storage, including any incompatibilities

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

Specific end use(s)

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

8. Exposure Controls/personal protection

Exposure controls

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
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 OSHA 1910.133.

Hand protection
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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.
DFense Blok Fast Cure Resin

Other skin and body protection
Provide eyewash station and safety shower.

Hygiene measures
Promptly remove any clothing that becomes wet or contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

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>solid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild.</td>
</tr>
<tr>
<td>pH (concentrated solution)</td>
<td>neutral</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flash point</td>
<td>93.3°C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Relative density</td>
<td>2.05g/mL</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Reactivity
There are no known reactivity hazards associated with this product.

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

Possibility of hazardous reactions
No potentially hazardous reactions known.

Conditions to avoid
Avoid heat. Avoid contact with strong oxidizing agents. Avoid contact with acids.

Materials to avoid

11. Toxicological information

Ecotoxicity
No data on possible environmental effects have been found.

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

12. Ecological Information

Other adverse effects
Not determined.

13. Disposal considerations
DFense Blok Fast Cure Resin

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

14. Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number
Not applicable.

UN proper shipping name
Not applicable.

Transport hazard class(es)

Transport labels
No transport warning sign required.

Packing group
Not applicable.

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user
Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. Regulatory information

16. Other information

Revision date 4/3/2018
Revision 4
Supersedes date 4/28/2016

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.