SAFETY DATA SHEET
WB S COMPONENT A

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

1.1. Product identifier
Product name

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Two-component, epoxy-based adhesive.
Uses advised against
No specific uses advised against are identified.

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
Flam. Liq. 3 - H226

Health hazards
Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards
Aquatic Chronic 2 - H411

2.2. Label elements
Pictogram

Signal word
Warning

Hazard statements
H226 Flammable liquid and vapour.
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.
WB S COMPONENT A

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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 ), Liquid polysulphide polymer with epoxy end groups

Supplementary precautionary statements

P233 Keep container tightly closed.
P240 Ground/ bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P302+P351 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.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

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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Classification

Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411
### WB S COMPONENT A

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>CAS Number</th>
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<tr>
<td><strong>Liquid polysulphide polymer with epoxy end groups</strong></td>
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<td>117527-71-6</td>
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<tr>
<td><strong>Classification</strong></td>
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<tr>
<td>Skin Irrit. 2 - H315</td>
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<td></td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
<td></td>
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<tr>
<td>Aquatic Chronic 2 - H411</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>Weight</th>
<th>CAS Number</th>
</tr>
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<tr>
<td><strong>trizinc bis(orthophosphate)</strong></td>
<td>5-10%</td>
<td>7779-90-0</td>
</tr>
<tr>
<td>M factor (Acute) = 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M factor (Chronic) = 1</td>
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<td></td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Acute 1 - H400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 1 - H410</td>
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</table>

<table>
<thead>
<tr>
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<td>1330-20-7</td>
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<td><strong>Classification</strong></td>
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</tr>
<tr>
<td>Flam. Liq. 3 - H226</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H312</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4 - H332</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>CAS Number</th>
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<td><strong>Classification</strong></td>
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<tr>
<td>Acute Tox. 4 - H332</td>
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<tr>
<td>STOT RE 2 - H373</td>
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<td></td>
</tr>
<tr>
<td>Asp. Tox. 1 - H304</td>
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</table>

<table>
<thead>
<tr>
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<th>Weight</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ZINC OXIDE</strong></td>
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<td>1314-13-2</td>
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<tr>
<td><strong>Classification</strong></td>
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<td></td>
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<tr>
<td>Aquatic Acute 1 - H400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 1 - H410</td>
<td></td>
<td></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

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
WB S COMPONENT A

4.1. Ingestion
Get medical attention. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

4.2. 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.

4.3. Eye contact
Rinse immediately with plenty of water. Continue to rinse for at least 10 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
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
When heated, vapours/gases hazardous to health may be formed.

5.3. Advice for firefighters

Protective actions during firefighting
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
Provide adequate ventilation. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. 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

7.1. Precautions for safe handling
WB S COMPONENT A

Usage precautions

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.

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

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk)  220 mg/m³(Sk)
Short-term exposure limit (15-minute):  WEL 100 ppm(Sk)  441 mg/m³(Sk)

ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk)  441 mg/m³(Sk)
Short-term exposure limit (15-minute):  WEL 125 ppm(Sk)  552 mg/m³(Sk)

WEL = Workplace Exposure Limit

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

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Butyl rubber. It should be noted that liquid may penetrate the gloves. 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.

Other skin and body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Provide eyewash station and safety shower. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash at the end of each work shift and before eating, smoking and using the toilet.
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Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type AX. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

Environmental exposure controls
Not determined.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Coloured paste</td>
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<tr>
<td>Colour</td>
<td>Grey</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not determined</td>
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<tr>
<td>Flash point</td>
<td>27°C Not specified</td>
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<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
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<tr>
<td>Upper/lower flammability or</td>
<td>Not determined</td>
</tr>
<tr>
<td>explosive limits</td>
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<tr>
<td>Vapour pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.45 @ 20°C</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

9.2. Other information

Volatile organic compound
This product contains a maximum VOC content of 5-10 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
The following materials may react with the product: Acids. Alkalis. Strong oxidising agents.

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
Emits vapours if heated. No potentially hazardous reactions known.

10.4. Conditions to avoid
WB S COMPONENT A

Conditions to avoid
Avoid heat. Avoid contact with the following materials: Strong oxidising agents. Avoid contact with acids and alkalis.

10.5. Incompatible materials
Materials to avoid

10.6. Hazardous decomposition products
Hazardous decomposition products
Not known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity - dermal
ATE dermal (mg/kg) 2,078,609.0

Acute toxicity - inhalation
ATE inhalation (gases ppm) 4,285,714.0
ATE inhalation (vapours mg/l) 10,476.0
ATE inhalation (dusts/mists mg/l) 1,429.0

Inhalation
Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion
May cause discomfort if swallowed. Gastrointestinal symptoms, including upset stomach.

Skin contact
Irritating to skin. The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact
Irritating to eyes. Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

Route of entry
Inhalation Ingestion. Skin and/or eye contact

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.

12.1. Toxicity
Toxicity
Not determined.

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

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.

Partition coefficient
Not determined.

12.4. Mobility in soil
Mobility
The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects
SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information
Waste is classified as hazardous 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

14.1. UN number
UN No. (ADR/RID) 1866
UN No. (IMDG) 1866
UN No. (ICAO) 1866

14.2. UN proper shipping name
Proper shipping name (ADR/RID) RESIN SOLUTION (Liquid polysulphide polymer with epoxy end groups)
Proper shipping name (IMDG) RESIN SOLUTION (Liquid polysulphide polymer with epoxy end groups)
Proper shipping name (ICAO) RESIN SOLUTION (Liquid polysulphide polymer with epoxy end groups)

14.3. Transport hazard class(es)
ADR/RID class 3
ADR/RID label 3
IMDG class 3
ICAO class/division 3

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-E, S-E
WB S COMPONENT A

Emergency Action Code •3Y
Hazard Identification Number (ADR/RID) 30
Tunnel restriction code (D/E)

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 27/04/2016
Revision 5
Supersedes date 01/07/2015

Hazard statements in full

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
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.