



**SAFETY DATA SHEET**  
**WEARGUARD HIGH LOAD RESIN.**

## 1. Identification

### Product identifier

**Product name** WEARGUARD HIGH LOAD RESIN.

**Product number** X99A

### 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  
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 3 - H412

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

### Label elements

#### **Pictogram**



**Signal word** Warning

**Hazard statements**  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

## WEARGUARD HIGH LOAD RESIN.

<b>Precautionary statements</b>	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.
	P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P501 Dispose of contents/ container in accordance with national regulations.

<b>Contains</b>	EPOXY RESIN (Number average MW ≤ 700 ), 1,4-BIS[(2,3-EPOXYPROPOXY)METHYL]CYCLOHEXANE
-----------------	--

### Other hazards

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

### 3. Composition/information on ingredients

#### Mixtures

<b>EPOXY RESIN (Number average MW ≤ 700 )</b>		<b>10-30%</b>
CAS number: 25068-38-6		
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411		
<b>1,4-BIS[(2,3-EPOXYPROPOXY)METHYL]CYCLOHEXANE</b>		<b>5-10%</b>
CAS number: 14228-73-0		
<b>Classification</b> Skin Sens. 1 - H317		

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

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Inhalation</b>	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.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.
<b>Skin Contact</b>	Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

## WEARGUARD HIGH LOAD RESIN.

**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.

### 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. 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.

## 6. Accidental release measures

### 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.

### 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.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Absorb spillage with sand or other inert absorbent. Transfer to covered steel drums for disposal. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

**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

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

### 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).

### Specific end uses(s)

## WEARGUARD HIGH LOAD RESIN.

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

### 8. Exposure Controls/personal protection

**Ingredient comments** No exposure limits known for ingredient(s).

#### Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

##### 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

Wear protective gloves made of the following material: Rubber or plastic. 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.

##### Other skin and body protection

Wear apron or protective clothing in case of contact.

##### Hygiene measures

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.

##### 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

<b>Appearance</b>	Viscous liquid.
<b>Color</b>	Dark. Grey.
<b>Odor</b>	Slight.
<b>pH</b>	pH (concentrated solution): 7.0 @ 20 °C
<b>Melting point</b>	n/d °C
<b>Initial boiling point and range</b>	>260 °C @
<b>Flash point</b>	> 204 °C
<b>Evaporation rate</b>	<<1 (BUTYL ACETATE =1)
<b>Vapor pressure</b>	0.03mmHg @ °C

**WEARGUARD HIGH LOAD RESIN.**

Vapor density	>1
Relative density	1.1-1.3 @ 20 °C°C
Solubility(ies)	Slightly soluble in water.
Auto-ignition temperature	>300°C
Other information	Not available.

**10. Stability and reactivity**

Reactivity	Strong oxidizing agents. Acids. Amines.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Will not polymerize.
Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time.
Materials to avoid	Avoid contact with the following materials: Strong oxidizing agents. Strong acids. Amines.
Hazardous decomposition products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Vapours/gases/fumes of: Acids - organic. Aldehydes.

**11. Toxicological information**Information on toxicological effects

Inhalation	No significant hazard at normal ambient temperatures. Heating may generate the following products: Irritating gases or vapors.
Ingestion	May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhea.
Skin Contact	Irritating to skin. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact. May cause sensitization or allergic reactions in sensitive individuals.
Eye contact	Irritating to eyes. Risk of serious damage to eyes.
Acute and chronic health hazards	The product contains an epoxy resin. May cause sensitization or allergic reactions in sensitive individuals.

**12. Ecological Information**

Ecotoxicity	Avoid release to the environment. The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
Toxicity	Very toxic to aquatic organisms.
<u>Persistence and degradability</u>	
Persistence and degradability	There are no data on the degradability of this product.
<u>Bioaccumulative potential</u>	
Bio-Accumulative Potential	No data available on bioaccumulation.

**WEARGUARD HIGH LOAD RESIN.****Mobility in soil**

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

**Other adverse effects**

**Other adverse effects** Not available.

**13. Disposal considerations****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

**14. Transport information**

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

**UN Number**

No information required.

**UN proper shipping name**

No information required.

**Transport hazard class(es)****Transport labels**

No transport warning sign required.

**Packing group**

No information required.

**Environmental hazards****Environmentally Hazardous Substance**

No.

**Special precautions for user**

No information required.

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

**15. Regulatory information****16. Other information**

**Revision date** 4/4/2018

**Revision** 10

**Supersedes date** 4/28/2016

## WEARGUARD HIGH LOAD RESIN.

**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.  
H412 Harmful 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.