

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Product name	WEAR RESISTANT LIQUID (WR) RESIN
Product number	X0012
1.2. Relevant identified uses	s of the substance or mixture and uses advised against
Identified uses	Resin.
1.3. Details of the supplier o	f 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 n	lumber
Emergency telephone	+44(0)1235 239 670 (24h)
SECTION 2: Hazards identif	ication
2.1. Classification of the sub	stance or mixture
Classification (EC 1272/200	8)
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 an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.
2.2. Label elements	
Pictogram	
Signal word	Warning

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.
Supplemental label information	EUH205 Contains epoxy constituents. May produce an allergic reaction.
Contains	EPOXY RESIN (Number average MW <= 700)
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. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EPOXY RESIN (Number average MW <= 700)		30-60%
CAS number: 25068-38-6	EC number: 500-033-5	REACH registration number: 01- 2119456619-26-0000
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		
Aquatic Chronic 2 - H411		
TITANIUM DIOXIDE		1-5%
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01- 2119489379-17-0000
Classification		
Not Classified		
SILICA SAND		<1%
CAS number: 14808-60-7	EC number: 238-878-4	
Classification		
Not Classified		

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

SECTION 4: First aid measures

4.1. Description of first aid mea	asures	
General information	Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	
Inhalation	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.	
Ingestion	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. Get medical attention.	
Skin contact	Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.	
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.	
4.2. Most important symptoms	and effects, both acute and delayed	
4.3. Indication of any immediat	te medical attention and special treatment needed	
SECTION 5: Firefighting meas	ures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder.	
5.2. Special hazards arising fro	om 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. Keep up-wind to avoid fumes. 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 releas	e measures	
6.1. Personal precautions, prot	tective 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.	
6.2. Environmental precautions	8	
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 o	containment and cleaning up	
Methods for cleaning up	Absorb spillage with sand or other inert absorbent. 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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Use only in well-ventilated areas. Handle and open container with care. Provide adequate ventilation. Keep away from heat, sparks and open flame. Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using the product. Do not use in confined spaces without adequate ventilation and/or respirator.	
7.2. Conditions for safe storage	e, 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		
TITANIUM DIOXIDE		
Long-term exposure limit (8-hour TWA): 10 mg/m3 total dust		
SILICA SAND		
Long-term exposure limit (8-hour TWA): WEL 0.3 mg/m3 Resp Dust, HK WEL = Workplace Exposure Limit		

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

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





Standard EN166.

Appropriate engineering controls

Eye/face protection

Hand protection

protection

Wear protective gloves made of the following material: Rubber or plastic. It is recommended that gloves are made of the following material: Butyl rubber. 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.

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 European

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

Provide adequate general and local exhaust ventilation.

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 Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If ventilation is inadequate, suitable respiratory protection must be worn. 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	Dark. Grey.	
Odour	Slight.	
рН	pH (concentrated solution): 7.0 @ 20 °C	
Melting point	n/d°C	
Initial boiling point and range	>260°C @	
Flash point	> 204°C	
Vapour pressure	0.03 mmHg @ °C	
Relative density	2.80 @ 20 °C°C	
Solubility(ies)	Slightly soluble in water.	
Auto-ignition temperature	>300°C	
9.2. Other information		
SECTION 10: Stability and rea	activity	
10.1. Reactivity		
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended.	
10.3. Possibility of hazardous reactions		
10.4. Conditions to avoid		
Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.	
10.5. Incompatible materials		
Materials to avoid	Avoid contact with the following materials: Strong oxidising agents. Strong acids. Amines.	
10.6. Hazardous decomposition products		
Hazardous decomposition	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and	
products	other toxic gases or vapours. Vapours/gases/fumes of: Acids - organic. Aldehydes.	
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Skin contact	Irritating to skin. May cause sensitisation by skin contact. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive	

amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact Irritating to eyes.

Acute and chronic health	The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive	
hazards	individuals.	
Route of entry	Inhalation Ingestion. Skin and/or eye contact	
SECTION 12: Ecological Inform	nation	
Ecotoxicity	Avoid releasing into 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.	
12.1. Toxicity		
12.2. Persistence and degrada	bility	
12.3. Bioaccumulative potentia	<u>d</u>	
12.4. Mobility in soil		
Mobility	Do not discharge into drains or watercourses or onto the ground.	
12.5. Results of PBT and vPvE	3 assessment	
12.6. Other adverse effects		
SECTION 13: Disposal conside	erations	
13.1. Waste treatment method	<u>s</u>	
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	
SECTION 14: Transport inform	nation	
14.1. UN number		
UN No. (ADR/RID)	3082	
UN No. (IMDG)	3082	
	3082	
UN No. (ICAO)		
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(e	s)	
ADR/RID class	9	
ADR/RID label	9	
IMDG class	9	
ICAO class/division	9	

Transport labels



	14.4. Packing group
,	ADR/RID packing group

IMDG packing group	III
ICAO packing group	Ш

ICAO packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

Ш



EU legislation

14.6. Special precautions for user		
EmS	F-A, S-F	
Emergency Action Code	•3Z	
Hazard Identification Number (ADR/RID)	90	

Tunnel restriction code (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

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

SECTION 16: Other information	
Revision date	04/04/2018
Revision	16
Supersedes date	05/04/2017
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.