

SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	WEARGUARD HIGH LOAD HARDENER
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	Hardener.
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 n	umber
Emergency telephone	+44(0)1235 239 670 (24h)
SECTION 2: Hazards identif	ication
2.1. Classification of the sub	stance or mixture
Classification (EC 1272/2008	3)
Physical hazards	Not Classified
Health hazards	Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards	Aquatic Chronic 2 - H411
2.2. Label elements	
Pictogram	
\wedge	
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
	H317 May cause an allergic skin reaction.
	H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
i rooduionary statements	P302+P352 IF ON SKIN: Wash with plenty of water.
	P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Contains	Crystalline Silica (Quartz), 2,2,4-TRIMETHYLHEXANE-1,6 DIAMINE, 4-TERT.BUTYL PHENOL, m-XYLYLENEDIAMINE
Supplementary precautionary statements	 P261 Avoid breathing vapour/ spray. P272 Contaminated work clothing should not be allowed out of the workplace. P321 Specific treatment (see medical advice on this label). P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

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

SECTION 3: Composition/informat	tion on ingredients	
3.2. Mixtures		
Crystalline Silica (Quartz)		10-30%
CAS number: 14808-60-7	EC number: 231-545-4	
Classification		
Carc. 1A - H350		
2,2,4-TRIMETHYLHEXANE-1,6 [DIAMINE	10-30%
CAS number: 3236-53-1		
Classification		
Acute Tox. 4 - H302		
Skin Corr. 1B - H314		
Skin Sens. 1 - H317		
Aquatic Chronic 3 - H412		
4-TERT.BUTYL PHENOL		1-5%
CAS number: 98-54-4	EC number: 202-679-0	
M factor (Chronic) = 1		
Classification		
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Repr. 2 - H361f		
Aquatic Chronic 1 - H410		
m-XYLYLENEDIAMINE		1-5%
	EC number 210 022 5	
CAS number: 1477-55-0	EC number: 216-032-5	REACH registration number: 01- 2119480150-50-0000
Classification		
Acute Tox. 4 - H302		
Acute Tox. 4 - H332		
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
Aquatic Chronic 3 - H412		

TITANIUM DIOXIDE		<1%
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01- 2119489379-17-0000
Classification Not Classified		
The full text for all hazard state	ements is displayed in Section 16.	
Composition comments	EPOXY CURING AGENT	
SECTION 4: First aid measure	95	
4.1. Description of first aid me	asures	
General information	Do not breathe vapour/spray. Avoid contact feel unwell, seek medical advice immediate	with skin and eyes. In case of accident or if you ly (show the label where possible).
Inhalation	Move affected person to fresh air at once. W personnel may assist affected person by ad discomfort continues.	Vhen breathing is difficult, properly trained ministering oxygen. Get medical attention if any
Ingestion	Do not induce vomiting. Drink a few glasses an unconscious person. Do not induce vomi	s of water or milk. Never give anything by mouth to iting. Get medical attention immediately.
Skin contact	Remove affected person from source of con water. Get medical attention if irritation pers	ntamination. Wash skin thoroughly with soap and ists after washing.
Eye contact		ds wide apart. Continue to rinse for at least 15 lical attention if irritation persists after washing.
4.2. Most important symptoms	and effects, both acute and delayed	
General information	The severity of the symptoms described will length of exposure.	I vary dependent on the concentration and the
4.3. Indication of any immedia	te medical attention and special treatment ne	eded
Notes for the doctor	No specific recommendations. If in doubt, get	et medical attention promptly.
SECTION 5: Firefighting meas	sures	
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	Avoid breathing fire gases or vapours.	
5.3. Advice for firefighters		
Protective actions during firefighting	Keep up-wind to avoid fumes. Control run-o and watercourses.	ff water by containing and keeping it out of sewers
Special protective equipment for firefighters	Wear positive-pressure self-contained breat clothing.	thing apparatus (SCBA) and appropriate protective
SECTION 6: Accidental releas	e measures	
6.1 Personal precautions pro	tective equipment and emergency procedures	8

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautionsAvoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this
safety data sheet. Provide adequate ventilation. Eliminate all sources of ignition.

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 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

Provide adequate general and local exhaust ventilation. Observe any occupational exposure Usage precautions limits for the product or ingredients. Avoid contact with skin and eyes. Contaminated clothing and shoes must be discarded. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.

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

TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): 10 mg/m3 total dust

Ingredient comments

No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment





Appropriate engineering controls

Eye/face protection

Provide adequate general and local exhaust ventilation.

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 Standard EN166.

Hand protection	Use protective gloves. It is recommended that gloves are made of the following material: Rubber (natural, latex). It is recommended that gloves are made of the following material: Butyl rubber. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). It is recommended that gloves are made of the following material: Neoprene. 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. 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 European Standard EN140.

SECTION 9: Physical and Chemical Properties

Appearance Paste. Colour White. Odour Ammonia.		
Odour Ammonia		
pH pH (diluted solution): 9.5 5%		
Melting point N/D°C		
Initial boiling point and range >176°C @		
Flash point>121°C		
Evaporation rate <1 (butyl acetate =1)		
Upper/lower flammability or Upper flammable/explosive limit: N/D Lower flammable/explosive limit: N/D explosive limits		
Vapour density >1		
Relative density 2.25 @ 20 °C°C		
Solubility(ies) Slightly soluble in water.		
9.2. Other information		
Other information Not available.		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
Reactivity Acids. 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	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	Avoid contact with the following materials: Acids. Oxidising agents.	
10.6. Hazardous decompositio	n products	
Hazardous decomposition products	Fire or high temperatures create: Nitrous gases (NOx). Oxides of the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Vapours/gases/fumes of: Ammonia or amines.	
SECTION 11: Toxicological inf	formation	
11.1. Information on toxicologie	cal effects	
Acute toxicity - oral ATE oral (mg/kg)	381,679.0	
Acute toxicity - inhalation		
ATE inhalation (gases ppm)	1,500,000.0	
ATE inhalation (vapours mg/l)	36,667.0	
ATE inhalation (dusts/mists mg/l)	500.0	
Inhalation	High concentrations may cause severe lung damage.	
Ingestion	Harmful if swallowed.	
Skin contact	Causes burns. Corrosive. Prolonged contact causes serious tissue damage. May cause sensitisation by skin contact.	
Eye contact	Risk of serious damage to eyes. Causes burns.	
Acute and chronic health hazards	This product is corrosive. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns.	
	2,2,4-TRIMETHYLHEXANE-1,6 DIAMINE	
Acute toxicity - or		
ATE oral (mg/kg)	500.0	
SECTION 12: Ecological Inform	nation	
Ecotoxicity	Avoid releasing into the environment.	
12.1. Toxicity		
Toxicity	Very toxic to aquatic organisms.	
12.2. Persistence and degrada	ibility	
Persistence and degradability	There are no data on the degradability of this product.	

12.3. Bioaccumulative potentia	<u>I</u>
Bioaccumulative potential	No data available on bioaccumulation.
12.4. Mobility in soil	
Mobility	Do not discharge into drains or watercourses or onto the ground.
12.5. Results of PBT and vPvB	B assessment
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
12.6. Other adverse effects	
Other adverse effects	Not available.
SECTION 13: Disposal conside	erations
13.1. Waste treatment method	8
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
SECTION 14: Transport inform	nation
14.1. UN number	
UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
14.2. UN proper shipping name	9
Proper shipping name (ADR/RID)	- ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NONYL PHENOL)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NONYL PHENOL)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NONYL PHENOL)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NONYL PHENOL)
14.3. Transport hazard class(e	s <u>)</u>
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

III

IMDG packing group	III
ICAO packing group	III
14.5. Environmental hazards	
Environmentally hazardous su	bstance/marine pollutant
14.6. Special precautions for u	ser
EmS	F-A, S-F
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)
14.7. Transport in bulk accordi	ng to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information required.
SECTION 15: Regulatory infor	mation
15.1. Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of t

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

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date	04/04/2018
Revision	10
Supersedes date	28/04/2016
SDS number	20680
Hazard statements in full	 H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H350 May cause cancer. H361f Suspected of damaging fertility. H410 Very toxic to aquatic life with long lasting effects. 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.