

# SAFETY DATA SHEET WEARGUARD FINE LOAD HARDENER

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

# 1.1. Product identifier

Product name WEARGUARD FINE LOAD HARDENER

Product number 11470H

#### 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 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 Not Classified

Health hazards Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 -

H361f

**Environmental hazards** Aquatic Chronic 2 - H411

# 2.2. Label elements

#### Pictogram







Danger



Signal word

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H361f Suspected of damaging fertility.

H411 Toxic to aquatic life with long lasting effects.

# WEARGUARD FINE LOAD HARDENER

**Precautionary statements** P261 Avoid breathing vapour/ spray.

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.

Contains 4-TERT.BUTYL PHENOL

Supplementary precautionary

P264 Wash contaminated skin thoroughly after handling.

statements

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.
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/information on ingredients

#### 3.2. Mixtures

# 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

QUARTZ 10-30%

Classification
Not Classified

m-XYLYLENEDIAMINE 5-10%

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

# WEARGUARD FINE LOAD HARDENER

4-TERT.BUTYL PHENOL 5-10%

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

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 statements is displayed in Section 16.

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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** Do not induce vomiting. Give plenty of water to drink. Never give anything by mouth to an

unconscious person. Do not induce vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin 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. Continue to rinse for at least 15 minutes. Get medical 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 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

No specific recommendations. If in doubt, get medical attention promptly.

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Water spray. Carbon dioxide (CO2). Dry chemicals.

Foam.

# 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Avoid breathing fire gases or vapours.

#### 5.3. Advice for firefighters

#### WEARGUARD FINE LOAD HARDENER

Protective actions during

firefighting

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.

#### SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Use suitable respiratory protection if ventilation is inadequate.

## 6.2. Environmental precautions

**Environmental precautions** 

Avoid discharge into drains or watercourses or onto the ground. 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

Usage precautions

Provide adequate ventilation. Do not use in confined spaces without adequate ventilation and/or respirator. Keep away from heat, sparks and open flame. Avoid contact with skin and eyes. 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

**QUARTZ** 

Long-term exposure limit (8-hour TWA): 0.3 mg/m<sup>3</sup>

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

#### WEARGUARD FINE LOAD HARDENER

#### Protective equipment









Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

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). 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 chemical protective suit.

Hygiene measures

Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

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

# 9.1. Information on basic physical and chemical properties

**Appearance** Paste.

Colour White. Ammonia.

pH (concentrated solution): 10.5

Melting point N/D°C

Initial boiling point and range >176°C @

Flash point >121°C

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: N/D Upper flammable/explosive limit: N/D

Relative density 2.25 @ °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

#### WEARGUARD FINE LOAD HARDENER

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 exposure to high temperatures or

direct sunlight.

10.5. Incompatible materials

Materials to avoid Avoid contact with the following materials: Acids. Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Thermal decomposition or combustion products may include the following substances: Nitrous

gases (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Vapours/gases/fumes of:

Ammonia or amines.

# SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 25,000.0

Acute toxicity - inhalation

ATE inhalation (gases ppm) 4,500.0

ATE inhalation (vapours mg/l) 11.0

Skin contact Causes burns. Corrosive. Prolonged contact causes serious tissue damage. May cause

sensitisation by skin contact. May cause sensitisation or allergic reactions in sensitive

individuals.

Eye contact Causes burns. This product is strongly corrosive. Causes severe burns. Immediate first aid is

imperative. Risk of serious damage to eyes.

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 - oral

ATE oral (mg/kg) 500.0

### SECTION 12: Ecological Information

**Ecotoxicity** Avoid release to the environment. 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 considered toxic to fish.

# 12.2. Persistence and degradability

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

#### WEARGUARD FINE LOAD HARDENER

# 12.3. Bioaccumulative potential

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 assessment

Results of PBT and vPvB

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

assessment

12.6. Other adverse effects

Other adverse effects Not available.

# SECTION 13: Disposal considerations

#### 13.1. 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

#### SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

### 14.1. UN number

No information required.

# 14.2. UN proper shipping name

No information required.

# 14.3. Transport hazard class(es)

No information required.

# 14.4. Packing group

No information required.

## 14.5. Environmental hazards

### Environmentally hazardous substance/marine pollutant

No.

# 14.6. Special precautions for user

No information required.

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to No information required.

Annex II of MARPOL 73/78

and the IBC Code

# SECTION 15: Regulatory information

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

# WEARGUARD FINE LOAD HARDENER

**EU legislation** 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 12

Supersedes date 28/04/2016

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.

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.