

SAFETY DATA SHEET WEARGUARD HIGH LOAD HARDENER

1. Identification

Product identifier

Product name WEARGUARD HIGH LOAD HARDENER

Recommended use of the chemical and restrictions on use

Application Hardener.

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 Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Label elements

Pictogram







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 P260 Do not breathe vapor/ spray.

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.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of water.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/ shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/ doctor.

P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

Contains Crystalline Silica (Quartz), 2,2,4-TRIMETHYLHEXANE-1,6 DIAMINE, 4-TERT.BUTYL

PHENOL, m-XYLYLENEDIAMINE

Other hazards

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

3. Composition/information on ingredients

Mixtures

Crystalline Silica (Quartz)	10-30%
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CAS number: 14808-60-7

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 Revision date: 4/4/2018 Revision: 10 Supersedes date: 4/28/2016

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4-TERT.BUTYL PHENOL 1-5%

CAS number: 98-54-4 M factor (Chronic) = 1

Classification

Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Repr. 2 - H361f

Aquatic Chronic 1 - H410

m-XYLYLENEDIAMINE 1-5%

CAS number: 1477-55-0

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

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

Composition comments EPOXY CURING AGENT

4. First-aid measures

Description of first aid measures

General information Do not breathe vapor/spray. 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. Drink a few glasses of water or milk. Never give anything by mouth to

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

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.

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 Avoid breathing fire gases or vapors.

Advice for firefighters

Protective actions during

firefighting

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.

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. Eliminate all sources of ignition.

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 non-combustible, absorbent material. Collect and place in suitable waste

disposal containers and seal securely. 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 Provide adequate general and local exhaust ventilation. Observe any occupational exposure

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.

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)

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.

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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

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 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

Appearance Paste.

Color White.

Odor Ammonia.

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

explosive limits

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

Vapor density >1

Relative density 2.25 @ 20 °C °C

Solubility(ies) Slightly soluble in water.

Other information Not available.

10. Stability and reactivity

Reactivity Acids. Strong oxidizing agents.

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Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

Not available.

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: Acids. Oxidizing agents.

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.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 3,816.79

Acute toxicity - inhalation

ATE inhalation (gases ppm) 150,000.0

ATE inhalation (vapours mg/l) 366.67

ATE inhalation (dusts/mists

mg/l)

50.0

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.

12. Ecological Information

Ecotoxicity Avoid releasing into the environment.

Toxicity Very toxic to aquatic organisms.

Persistence and degradability

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

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

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 methodsDispose 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

UN Number

UN No. (TDG) 3082 UN No. (IMDG) 3082 UN No. (ICAO) 3082 UN No. (DOT) 3082

UN proper shipping name

Proper shipping name (TDG) 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 (DOT) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NONYL PHENOL)

Transport hazard class(es)

TDG class 9

TDG label(s) 9

IMDG Class 9

ICAO class/division 9

Transport labels



Packing group

TDG Packing Group III
IMDG packing group III
ICAO packing group III
DOT packing group III

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

EmS F-A, S-F

Transport in bulk according to No information required.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

16. Other information

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Revision 10

Supersedes date 4/28/2016

SDS No. 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.