



SAFETY DATA SHEET

Wetsurface Repair Putty (UW) Hardener

1. Identification

Product identifier

Product name Wetsurface Repair Putty (UW) 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. 1C - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Not Classified

Human health Corrosive to skin and eyes. Corrosive. Prolonged contact causes serious eye and tissue damage.

Label elements

Pictogram



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.

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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.
 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.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

1,3-PROPANEDIAMINE, N[3-(TRIDECYCLOXY)PROPYL]-BRANCHED (ADOGEN 583),
 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Other hazards

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

3. Composition/information on ingredients

Mixtures

| | |
|---|---------------|
| 1,3-PROPANEDIAMINE, N[3-(TRIDECYCLOXY)PROPYL]-BRANCHED (ADOGEN 583) CAS number: 68479-04-9 | 10-30% |
| Classification Acute Tox. 4 - H302 Skin Corr. 1C - H314 Eye Dam. 1 - H318 | |
| 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL CAS number: 90-72-2 | 1-5% |
| Classification Skin Corr. 1B - 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.

4. First-aid measures

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).

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| 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. 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

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| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
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Indication of immediate medical attention and special treatment needed

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| Notes for the doctor | No specific recommendations. If in doubt, get medical attention promptly. |
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5. Fire-fighting measures

Extinguishing media

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| Suitable extinguishing media | Extinguish with the following media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. |
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Special hazards arising from the substance or mixture

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| Specific hazards | Avoid breathing fire gases or vapors. |
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Advice for firefighters

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| Protective actions during firefighting | Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. |
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| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |
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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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| Personal precautions | Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. |
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Environmental precautions

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| Environmental precautions | Avoid or minimize the creation of any environmental contamination. Do not 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. |
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Methods and material for containment and cleaning up

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| 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. |
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| Reference to other sections | Wear protective clothing as described in Section 8 of this safety data sheet. |
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7. Handling and storage

Precautions for safe handling

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Usage precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Use only in well-ventilated areas. Provide adequate ventilation. Do not use in confined spaces without adequate ventilation and/or respirator. 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.

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

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Butyl rubber. 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.

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. Wash promptly with soap and water if skin becomes contaminated. Change work clothing daily before leaving workplace. Promptly remove any clothing that becomes contaminated.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a supplied-air respirator. 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/off-white.

Odor

Amine.

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|--|---------------------|
| Melting point | n/d°C |
| Initial boiling point and range | >260°C @ |
| Flash point | >149°C |
| Vapor pressure | <1 @ °C |
| Relative density | 1.48 @ 20°C |
| Solubility(ies) | Insoluble in water. |
| Auto-ignition temperature | >300°C |
| Viscosity | 1300000 @ 25°C |
| Other information | Not available. |

10. Stability and reactivity

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| Reactivity | Strong oxidizing agents. |
| 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. Avoid exposure to high temperatures or direct sunlight. |
| Materials to avoid | Avoid contact with oxidizing agents. Nitrous acid and other nitrosating agents. |
| Hazardous decomposition products | Thermal decomposition or combustion products may include the following substances: Nitrous gases (NOx). Oxides of the following substances: Carbon dioxide (CO2). Carbon monoxide (CO). Vapours/gases/fumes of: Ammonia or amines. |

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 2,500.0

Inhalation Harmful by inhalation. Do not breathe vapour. Corrosive

Ingestion Harmful if swallowed.

Skin Contact Harmful in contact with skin. Causes burns. Corrosive. Prolonged contact causes serious tissue damage.

Eye contact Causes burns. 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.

1,3-PROPANEDIAMINE, N[3-(TRIDECYCLOXY)PROPYL]-BRANCHED (ADOGEN 583)

Acute toxicity - oral

ATE oral (mg/kg) 500.0

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12. Ecological Information

Ecotoxicity Avoid release to the environment.

Toxicity Not considered toxic to fish.

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 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

UN Number

UN No. (TDG) 2735

UN No. (IMDG) 2735

UN No. (ICAO) 2735

UN No. (DOT) 2735

UN proper shipping name

Proper shipping name (TDG) AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-PROPANEDIAMINE, N[3-(TRIDECYCLOXY)PROPYL]-BRANCHED (ADOGEN 583))

Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-PROPANEDIAMINE, N[3-(TRIDECYCLOXY)PROPYL]-BRANCHED (ADOGEN 583))

Proper shipping name (ICAO) AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-PROPANEDIAMINE, N[3-(TRIDECYCLOXY)PROPYL]-BRANCHED (ADOGEN 583))

Proper shipping name (DOT) AMINES, LIQUID, CORROSIVE, N.O.S. (1,3-PROPANEDIAMINE, N[3-(TRIDECYCLOXY)PROPYL]-BRANCHED (ADOGEN 583))

Transport hazard class(es)

No information required.

TDG class 8

TDG label(s) 8

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IMDG Class 8

ICAO class/division 8

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

No.

Special precautions for user

EmS F-A, S-B

15. Regulatory information

16. Other information

Revision date 4/4/2018

Revision 6

Supersedes date 4/27/2017

Hazard statements in full

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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.