

All components of this product are on the Canadian Domestic Substances List.

WHMIS Pictograms:

**SECTION 16 : ADDITIONAL INFORMATION****HMIS Ratings:**

HMIS Health Hazard: 2*
 HMIS Fire Hazard: 1
 HMIS Reactivity: 1
 HMIS Personal Protection: X

Health Hazard	2*
Fire Hazard	1
Reactivity	1
Personal Protection	X

* Chronic Health Effects

SDS Revision Date: May 19, 2015
 SDS Revision Notes: GHS Update
 SDS Format: In accordance to OSHA GHS 1910.1200
 SDS Author: Actio Corporation

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Component A - SDS**SECTION 1 : IDENTIFICATION****Product identifier used on the label:****Product Name: UNDERWATER REPAIR PUTTY (UW) HARDENER****Other means of identification:****Synonyms:** None.**Recommended use of the chemical and restrictions on use:****Product Use/Restriction:** Not applicable.**Chemical manufacturer address and telephone number:**

Manufacturer Name: ITW
Address: 30 Endicott Street
 Danvers, MA 01923
General Phone Number: (978) 777-1100

Emergency phone number:

Emergency Phone Number: (800) 424-9300
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word:

DANGER.

GHS Class:

Serious Eye Damage. category 1.
Specific Target Organ Toxicity -STOT Repeated exposure RE. category 1.
Carcinogenicity. Category 1B.
Skin Sensitization. category 1.

Hazard Statements:

H318 - Causes serious eye damage.
H372 - Causes damage to organs through prolonged or repeated exposure.
H350 - May cause cancer.
H317 - May cause an allergic skin reaction.

Precautionary Statements:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing should not be allowed out of the workplace.
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.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P310 - Immediately call a POISON CENTER or doctor/physician.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see ... 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.
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure:

Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye:

Can cause severe eye irritation and burns. Eye contact may cause permanent damage or blindness.

Skin:

Causes severe skin irritation. May cause permanent skin damage. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Inhalation:

Vapor or mist may cause severe respiratory system irritation.

Ingestion:

Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects:

Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms:

Overexposure may cause eye watering or discomfort, redness and swelling.

Target Organs:

Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions:

Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
1,3-Propanediamine, N-[3-(tridecylcloxy)propyl]-, branched	68479-04-9	10 - 20 by weight	
Amorphous silicon dioxide	67762-90-7	10 - 20 by weight	
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	1 - 10 by weight	

Aliphatic Amines	No Data	40 - 50 by weight
Calcium Carbonate	1317-65-3	20 - 30 by weight
Titanium dioxide	13463-67-7	0.1 - 1.0 by weight
Crystalline silica	14808-60-7	0.1 - 1.0 by weight

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Use carbon dioxide (CO ₂) or dry chemical when fighting fires involving this material.
Unsuitable extinguishing media:	Water or foam may cause frothing.

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
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Environmental precautions:

Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
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Methods and materials for containment and cleaning up:

Spill Cleanup Measures:	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in Section 8.
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Reference to other sections:

Other Precautions:	Pump or shovel to storage/salvage vessels.
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SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
Hygiene Practices:	Wash thoroughly after handling.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Conditions for safe storage, including any incompatibilities:

Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Do not store in reactive metal containers. Keep away from acids, oxidizers.
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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTIONEXPOSURE GUIDELINES:**Titanium dioxide :**

Guideline ACGIH: TLV-TWA: 10 mg/m³

Crystalline silica :

Guideline ACGIH: TLV-TWA: 0.025 mg/m³ (R)

Appropriate engineering controls:

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description: Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

Notes : Only established PEL and TLV values for the ingredients are listed.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIESPHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance:	Paste.
Color:	Viscous. white..
Odor:	Ammonia like.
Boiling Point:	Not determined.
Melting Point:	Not determined.
Specific Gravity:	1.48
Solubility:	negligible.
Vapor Density:	>1 (air = 1)
Vapor Pressure:	<1 mmHg @25°F
Percent Volatile:	0
Evaporation Rate:	Not determined.
pH:	10.5 @ 5 Percent Solution
Molecular Formula:	Mixture
Molecular Weight:	Mixture

Flash Point:	>200°F (93.3°C)
Flash Point Method:	Estimated.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Auto Ignition Temperature:	Not determined.
VOC Content:	0 g/L

9.2. Other information:

Percent Solids by Weight	100
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SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported.

Conditions To Avoid:

Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.

Incompatible Materials:

Incompatible Materials: Oxidizers, acids, and chlorinated organic compounds. Reactive metals (e.g. sodium, calcium, zinc). Sodium/calcium hypochlorite. Nitrous acid/ oxide, nitrites. Peroxides. Materials reactive with hydroxyl compounds.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Tris-2,4,6-(dimethylaminomethyl)phenol :

Eye: Administration into the eye - Rabbit Standard Draize test: 50 ug/24H [Severe] (RTECS)

Skin: Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: 1280 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 1200 mg/kg [Peripheral Nerve and Sensation - Flaccid paralysis without anesthesia (usually neuromuscular blockage) Lungs, Thorax, or Respiration - Dyspnea]
Oral - Rat LD50 - Lethal dose, 50 percent kill: 1673 mg/kg [Behavioral - Tremor Gastrointestinal - Ulceration or bleeding from stomach Liver - Other changes] (RTECS)

Titanium dioxide :

Chronic Effects: Normal application procedures for this product pose minimal hazard as to the release of respirable titanium dioxide dust, but grinding or sanding dried films of this product may yield some respirable titanium dioxide. Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials". OSHA does not regulate titanium dioxide as a carcinogen. However, under 29CFR 1910.1200 the SDS must convey the fact that titanium dioxide is a potential carcinogen to rats.

Carcinogenicity: Animal evidence shows that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation.

Crystalline silica :

Chronic Effects: Long term exposure to crystalline silica may cause silicosis or lung cancer. Although normal application procedures for this product pose minimal hazard as to the release of crystalline silica dust, grinding or sanding cured product may generate some respirable crystalline silica.

Carcinogenicity: Crystalline silica in the form of quartz or cristobalite dust causes cancer of the lung.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: No ecotoxicity data was found for the product.
Environmental Fate: No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

RCRA Number: Not determined.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Refer to Bill of Lading
DOT UN Number: Refer to Bill of Lading

IATA Shipping Name: Refer to Bill of Lading
IATA UN Number: Refer to Bill of Lading

IMDG UN Number : Refer to Bill of Lading
IMDG Shipping Name : Refer to Bill of Lading

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

1,3-Propanediamine, N-[3-(tridecycloxy)propyl]-,branched :

TSCA Inventory Status: Listed
Canada DSL: Listed

Amorphous silicon dioxide :

TSCA Inventory Status: Listed
Canada DSL: Listed

Tris-2,4,6-(dimethylaminomethyl)phenol :

TSCA Inventory Status: Listed
Canada DSL: Listed

Calcium Carbonate :

TSCA Inventory Status: Listed

Titanium dioxide :

TSCA Inventory Status: Listed
Canada DSL: Listed

Crystalline silica :

TSCA Inventory Status: Listed
Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): D2B; D2A

WHMIS Pictograms:



SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 3*
 HMIS Fire Hazard: 1
 HMIS Reactivity: 1
 HMIS Personal Protection: X

Health Hazard	3*
Fire Hazard	1
Reactivity	1
Personal Protection	X

* Chronic Health Effects

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