**Common Name:** UNDERWATER REPAIR PUTTY (UW) HARDENER  
**Manufacturer:** ITW DEVCON  
**MSDS Revision Date:** 10/10/2006

**Grainger Item Number(s):** 5E151  
**Manufacturer Model Number(s):**

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**DEVCON(R*)**  
**11800**

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** UNDERWATER REPAIR PUTTY (UW) HARDENER  
**STOCK NO.:** 11800  
**MANUFACTURER NAME:** ITW DEVCON  
**ADDRESS:**  
30 ENDICOTT ST.  
DANVERS, MA 01923

**PRODUCT DESCRIPTION:**  
THE FOLLOWING HEALTH HAZARD DATA PERTAIN TO THE HARDENER ONLY.
WHEN FULLY CURED, THE MIXED PRODUCT IS NON-HAZARDOUS.

BUSINESS PHONE: (978) 777-1100

EMERGENCY PHONE: (800) 424-9300

NFPA:
3
1
1

HMIS:
HEALTH 3*
FIRE 1
REACTIVITY 1
PPE X

* CHRONIC HEALTH EFFECTS

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS#</th>
<th>INGREDIENT PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-PROPIANEDIAMINE, N-(3-(TRIDECYLOXY) PROPYL)-, BRANCHED</td>
<td>68479-04-9</td>
<td>5-10 BY WEIGHT</td>
</tr>
<tr>
<td>2,4,6-TRIS (DIMETHYLAMINOMETHYL)PHENOL</td>
<td>90-72-2</td>
<td>5-10 BY WEIGHT</td>
</tr>
<tr>
<td>INERT MATERIAL</td>
<td>N/A</td>
<td>10-30 BY WEIGHT</td>
</tr>
<tr>
<td>TRADE SECRET.</td>
<td>N/A</td>
<td>30-60 BY WEIGHT</td>
</tr>
<tr>
<td>FILLERS</td>
<td>N/A</td>
<td>10-30 BY WEIGHT</td>
</tr>
<tr>
<td>CRYSTALLINE SILICA</td>
<td>14808-60-7</td>
<td>0.1-1 BY WEIGHT</td>
</tr>
</tbody>
</table>

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING!

HARMFUL. POTENTIAL SENSITIZER. IRRITANT.

APPLIES TO HAZARDOUS INGREDIENTS:

ROUTE OF EXPOSURE: EYES. SKIN. INHALATION. INGESTION

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:
CAN CAUSE SEVERE EYE IRRITATION AND BURNS. EYE CONTACT MAY CAUSE PERMANENT DAMAGE OR BLINDNESS.

SKIN CONTACT:
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. MAY CAUSE RESPIRATORY SENSITIZATION WITH ASTHMA-LIKE SYMPTOMS IN SUSCEPTIBLE INDIVIDUALS.

INGESTION:
CAUSES IRRITATION, A BURNING SENSATION OF THE MOUTH, THROAT AND GASTROINTESTINAL TRACT AND ABDOMINAL PAIN.

CHRONIC SKIN CONTACT:
PROLONGED SKIN CONTACT MAY LEAD TO BURNING ASSOCIATED WITH SEVERE REDDENING, SWELLING, AND POSSIBLE TISSUE DESTRUCTION

TARGET ORGANS: EYES. SKIN. RESPIRATORY SYSTEM. DIGESTIVE SYSTEM.

SIGNS/SYMPTOMS:
OVEREXPOSURE MAY CAUSE EYE WATERING OR DISCOMFORT, REDNESS AND SWELLING.

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 4: FIRST AID 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

FLASH POINT: >200 DEG. F (93.3 DEG. C)
FLASH POINT METHOD: ESTIMATED.

UPPER FLAMMABLE OR EXPLOSIVE LIMIT: NOT DETERMINED,
LOWER FLAMMABLE OR EXPLOSIVE LIMIT: NOT DETERMINED.

AUTO IGNITION TEMPERATURE: NOT DETERMINED.
FLAMMABILITY CLASS: CLASS IIIB.

EXTINGUISHING MEDIA:
USE CARBON DIOXIDE (CO2) OR DRY CHEMICAL WHEN FIGHTING FIRES INVOLVING THIS MATERIAL.

UNSUITABLE MEDIA: WATER OR FOAM MAY CAUSE FROTHING.

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.

PROTECTIVE EQUIPMENT:
AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

SECTION 6: ACCIDENTAL RELEASE MEASURES

LEAK RESPONSE:
AVOID PERSONAL CONTACT AND BREATHING VAPORS OR MISTS. VENTILATE AREA. USE PROPER PERSONAL PROTECTIVE EQUIPMENT AS LISTED IN SECTION 8.

PERSONAL PRECAUTIONS:
EVACUATE AREA AND KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING THE SPILL AREA.

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.

ENVIRONMENTAL PRECAUTIONS:
AVOID RUNOFF INTO STORM SEWERS, DITCHES, AND WATERWAYS.

LARGE SPILL: PUMP OR SHOVEL TO STORAGE/SALVAGE VESSELS.

SECTION 7: HANDLING AND STORAGE

HANDLING:
USE WITH ADEQUATE VENTILATION. AVOID BREATHING VAPOR, AEROSOL OR MIST.

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.

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.
SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS:
USE APPROPRIATE ENGINEERING CONTROL SUCH AS PROCESS ENClosures, LOCAL EXHAUST VENTILATION, GENERAL DILUTION VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. 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.

SKIN PROTECTION DESCRIPTION:
WEAR APPROPRIATE PROTECTIVE GLOVES AND OTHER PROTECTIVE APPAREL TO PREVENT SKIN CONTACT.

HAND PROTECTION DESCRIPTION:
WEAR APPROPRIATE PROTECTIVE GLOVES. CONSULT GLOVE MANUFACTURER'S DATA FOR PERMEABILITY DATA.

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.

RESPIRATORY PROTECTION:
A NIOSH APPROVED AIR-PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR/PARTICULATES COMBINATION 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.

ONLY ESTABLISHED PEL AND TLV VALUES FOR THE INGREDIENTS ARE LISTED BELOW

INGREDIENT GUIDELINES:

INGREDIENT: CRYSTALLINE SILICA
GUIDEline TYPE: OSHA PEL-TWA
GUIDELINE INFORMATION: (10 MG/M3)/((% SiO2) + 2)

GUIDEline TYPE: ACGIH TLV-TWA
GUIDELINE INFORMATION: 0.025 MG/M3

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR: VISCOUS WHITE.

ODOR: AMMONIA LIKE.

PHYSICAL STATE: PASTE.

pH: 10.5 @ 5 PERCENT SOLUTION
VAPOR PRESSURE: <1 MMHg @ 25 DEG. F

VAPOR DENSITY: >1 (AIR = 1)

BOILING POINT: NOT DETERMINED.

MELTING POINT: NOT DETERMINED.

SOLUBILITY IN WATER: NEGligible.

SPECIFIC GRAVITY: 1.48

EVAPORATION POINT: NOT DETERMINED.

PERCENT VOLATILE: 0

VOLATILE ORGANIC COMPOUND CONTENT: 0 G/L

MOLECULAR FORMULA: VARIES

MOLECULAR WEIGHT: VARIES

PERCENT SOLIDS BY WEIGHT: 100

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

CONDITIONS TO AVOID:
EXTREME HEAT, SPARKS, AND OPEN FLAME. INCOMPATIBLE MATERIALS, OXIDIZERS AND OXIDIZING CONDITIONS.

INCOMPATIBILITIES WITH OTHER 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.

HAZARDOUS POLYMERIZATION: NOT REPORTED.

SECTION 11: TOXICOLOGICAL INFORMATION

2,4,6-TRIS (DIMETHYLAMINOMETHYL)PHENOL:

EYE EFFECT:
EYE - RABBIT STANDARD DRAIZE TEST: 50 (MICRO)G/24H - (SEVERE) (RTECS)

SKIN EFFECTS:
SKIN - RABBIT STANDARD DRAIZE TEST: 500 (MICRO)L/24H - (SEVERE) (RTECS)

SKIN - RAT LD50:
1280 MG/KG - (DETAILS OF TOXIC EFFECTS NOT REPORTED OTHER THAN LETHAL DOSE VALUE) (RTECS)

INGESTION EFFECTS:
ORAL - RAT LD50:
1200 MG/KG - (PERIPHERAL NERVE AND SENSATION - FLACCID PARALYSIS WITHOUT ANESTHESIA (USUALLY NEUROMUSCULAR BLOCKAGE) LUNGS, THORAX, OR RESPIRATION - DYSPNEA) (RTECS)

CRYSTALLINE SILICA:

INGESTION EFFECTS:

ORAL - RODENT RAT TDLO - LOWEST PUBLISHED TOXIC DOSE:
120 GM/KG - (GASTROINTESTINAL - HYPERMOTILITY, DIARRHEA GASTROINTESTINAL - OTHER CHANGES) (RTECS)

INHALATION EFFECTS:
INHALATION - RODENT RAT TCLO - LOWEST PUBLISHED TOXIC CONCENTRATION:
1 MG/KG - (LUNGS, THORAX, OR RESPIRATION - OTHER CHANGES BIOCHEMICAL - METABOLISM (INTERMEDIARY) - EFFECT ON INFLAMMATION OR MEDIATION OF INFLAMMATION) (RTECS)

CARCINOGENICITY:

IARC:
GROUP 1: CARCINOGENIC TO HUMANS
NTP: REASONABLY ANTICIPATED TO BE A HUMAN CARCINOGEN

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: NO ECOTOXICITY DATA WAS FOUND FOR THE PRODUCT.
ENVIRONMENTAL FATE: NO ENVIRONMENTAL INFORMATION FOUND FOR THIS PRODUCT.

SECTION 13: DISPOSAL CONSIDERATIONS

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 HAZARD CLASS: NONE

SECTION 14: TRANSPORT INFORMATION

DOT SHIPPING NAME: NON-REGULATED
DOT UN NUMBER: N/A
DOT HAZARD CLASS: N/A
DOT PACKING GROUP: N/A
DOT SUBPART E LABELING REQUIREMENT: N/A
NAERG NUMBER: N/A
TECHNICAL NAME N/A

SECTION 15: REGULATORY INFORMATION
APPLIES TO ALL INGREDIENTS:

TSCA 8(B):
INVENTORY STATUS:
ALL OF THE CONSTITUENTS OF THIS PRODUCT ARE EITHER TSCA LISTED OR EXEMPT FROM LISTING.

2,4,6-TRIS (DIMETHYLAMINOMETHYL)PHENOL:
EC NUMBER: 603-069-00-0

CRISTALLINE SILICA:

STATE:
LISTED IN THE STATE OF MASSACHUSETTS HAZARDOUS SUBSTANCE LIST.
LISTED IN THE PENNSYLVANIA STATE HAZARDOUS SUBSTANCES LIST.

COMMENTS:

WARNING:
THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

CANADIAN REGULATIONS WHMIS HAZARD CLASS(ES): D2B; D2A

SECTION 16: ADDITIONAL INFORMATION

HMIS:
HEALTH HAZARD       3*
FIRE HAZARD         1
REACTIVITY          1
PERSONAL PROTECTION X

NFPA:
HEALTH      3
FIRE HAZARD 1
REACTIVITY   1

MSDS REVISION DATE: 10/10/2006

MSDS AUTHOR: ACTIO CORPORATION

DISCLAIMER:
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