

# **KIT - SAFETY DATA SHEET**

Product identifier used on the label: Kit Name Stock No.:

DEVCON® Underwater Repair Putty (UW) 11800

Other means of identification:

Recommended use of the chemical and restrictions on use:

 

 Chemical manufacturer address and telephone number:

 Manufacturer Name:
 ITW Polymers Adhesives, North America

 Address:
 30 Endicott Street Danvers, MA 01923

	Component list
Component B	UNDERWATER REPAIR PUTTY-UW RESIN
Component A	UNDERWATER REPAIR PUTTY (UW) HARDENER
Kit SDS Revision Date	07/30/2015

# **Component B - SDS**

#### SECTION 1 : IDENTIFICATION

<u>Product identifier used on the label:</u> Product Name:	UNDERWATER REPAIR PUTTY-UW RESIN
Other means of identification: Synonyms:	None.
Recommended use of the chemical and restr	ictions on user
Product Use/Restriction:	Not applicable.
Chemical manufacturer address and telephor	ne 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:	WARNING.
GHS Class:	Eye Irritation. Category 2. Skin Irritation. Category 2. Skin Sensitization. Category 1. Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.
Hazard Statements:	H319 - Causes serious eye irritation. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.
Precautionary Statements:	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
Product: I	DEVCON® Underwater Repair Putty (UW)   Manufacturer:   Revison:07/30/2015, Version:0

if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER or doctor/physician if you feel unwell. P321 - Specific treatment (see ... on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash 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. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. 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 moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.
Skin:	Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.
Inhalation:	Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.
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 can cause headaches, dizziness, nausea, and vomiting.
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

<u>Mixtures:</u> Chemical Name	CA S#	Ingredient Percent	EC Num.
Calcium Carbonate	1317-65-3	60.7 - 67.1 by weight	
Bisphenol A diglycidyl ether resin	25068-38-6	31.3 - 34.6 by weight	
Crystalline silica	14808-60-7	0.1 - 1 by weight	
Carbon black	1333-86-4	0.1 - 1 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 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	l unsuitable	extinguishing	media:	
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Suitable and unsuitable extinguism	
Suitable Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Unsuitable extinguishing media:	Water or foam may cause frothing.
Unusual Fire Hazards:	Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization. Heating above 300 deg F in the presence of air may cause slow oxidative decomposition and above 500 deg F may cause polymerization.
Special protective equipment and p	recautions 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
Product: DEV	CON® Underwater Repair Putty (UW)   Manufacturer:   Revison:07/30/2015, Version:0
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# SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective ec	uipment and emergency procedures:
Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental precautions:	
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Methods and materials for contain	ment 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.
Reference to other sections:	
Other Precautions:	Pump or shovel to storage/salvage vessels.

#### 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.	

# SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:	
Crystalline silica :	
Guideline ACGIH:	TLV-TWA: 0.025 mg/m3 (R)
<u>Carbon black</u> :	
Guideline ACGIH:	TLV-TWA: 3 mg/m3 Inhalable fraction (I)
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 PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:		
Physical State Appearance:	Paste.	
Color:	Black.	
Odor:	Slight. odor.	
Boiling Point:	>500°F(260°C)	
Melting Point:	Not determined.	
Specific Gravity:	1.5	

Solubility:	negligible.
Vapor Density:	>1 (air = 1)
Vapor Pressure:	0.03 mmHg @171°F
Percent Volatile:	0
Evaporation Rate:	<<1 (butyl acetate = 1)
pH:	Neutral.
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	>400°F (204.4°C)
Flash Point Method:	Pensky-Martens Closed Cup
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

# 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. Heating resin above 300 F in the presence of air may cause slow oxidative decomposition.
Incompatible Materials:	
Incompatible Materials:	Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines).

# SECTION 11 : TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION:

iphenol A diglycidyl ether resin :	Bisphenol A diglycidyl ether resin
e: Administration into the eye - Rabbit Standard Draize test: 100 mg [Mild] Administration into the eye - Rabbit Standard Draize test: 20 mg/24H [Moderate] Administration into the eye - Rabbit Standard Draize test: 5 mg/24H [Severe] (RTECS)	Eye :
Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >20 mL/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rat LD50 - Lethal dose, 50 percent kill: >1200 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)	Skin:
gestion:Oral - Rat LD50 - Lethal dose, 50 percent kill: 10700 uL/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50 - Lethal dose, 50 percent kill: 13600 mg/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain] Oral - Rat LD50 - Lethal dose, 50 percent kill: 13.6 gm/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50 - Lethal dose, 50 percent kill: 11.4 gm/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Dyspnea Nutritional and Gross Metabolic - Weight loss or decreased weight gain] Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Details of toxic effects not reported other than lethal dose value] Oral - Rat LD50 - Lethal dose, 50 percent kill: 30 gm/kg [Details of toxic effects not reported other than lethal dose value] 	Ingestion:
<u>(stalline silica</u> :	<u>Crystalline silica</u> :
ronic 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.	Chronic Effects:
rcinogenicity: Crystalline silica in the form of quartz or cristobalite dust causes cancer of the lung.	Carcinogenicity:
rbon black :	Carbon black :
Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: >3 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)	Skin:
gestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: >15400 mg/kg [Behavioral - Somnolence (general depressed activity)] (RTECS)	Ingestion:
ronic Effects: This product contains carbon black, which is classified as a possible carcinogen by the International	Chronic Effects:

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Agency for Research on Cancer (IARC). Although normal application procedures for this product pose minimal hazard as to the release of carbon black dust, grinding or sanding cured product may generate respirable carbon black.

Carcinogenicity:

Carbon black and its extracts have been tested for carcinogenicity in rats and mice by inhalation and it has shown sufficient evidence in laboratory animals for the carcinogenicity of carbon black.

#### 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:	Non regulated.
bor shipping Name.	Non regulated.
DOT UN Number:	Not applicable.
DOT Hazard Class:	Not applicable.
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DOT Packing Group:	Not applicable.

#### SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:		
Calcium Carbonate :		
TSCA Inventory Status:	Listed	
Bisphenol A diglycidyl ether resin :		
TSCA Inventory Status:	Listed	
Canada DSL:	Listed	
<u>Crystalline silica</u> :		
TSCA Inventory Status:	Listed	
Canada DSL:	Listed	
<u>Carbon black</u> :		
TSCA Inventory Status:	Listed	
California PROP 65:	Listed: cancer.	
Canada DSL:	Listed	
Canadian Regulations.	WHMIS Hazard Class(es): D2B; D2A All components of this product are on the Canadian Domestic Substances List.	
WHMIS Pictograms:	$\odot$	

#### SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:				
HMIS Health Hazard:	2*		Health Hazard	2*
HMIS Fire Hazard:	1		Fire Hazard	1
HMIS Reactivity:	1		Reactivity	1
HMIS Personal Protection:	Х		Personal Protection	x
		* Chronic H	lealth Effects	
SDS Revision Date:	May 19, 2015			
MSDS Revision Notes:	GHS Update			
SDS Format:	In accordance to OSHA GHS 1910.1200			

Disclaimer:

#### Actio Corporation

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# **Component A - SDS**

#### SECTION 1 : IDENTIFICATION

<u>Product identifier used on the label:</u> Product Name:	UNDERWATER REPAIR PUTTY (UW) HARDENER
Other means of identification: Synonyms:	None.
Recommended use of the chemical and restri	ctions on use:
Product Use/Restriction:	Not applicable.
<u>Chemical manufacturer address and telephon</u> Manufacturer Name: Address:	ITW 30 Endicott Street
General Phone Number:	Danvers, MA 01923 (978) 777-1100
Emergency phone number: Emergency Phone Number: CHEMTREC:	(800) 424-9300 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):
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#### 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:	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention.</li> <li>P310 - Immediately call a POISON CENTER or doctor/physician.</li> <li>P314 - Get medical advice/attention if you feel unwell.</li> <li>P321 - Specific treatment (see on this label).</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P391 - Collect spillage.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.</li> </ul>

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

CAS#	Ingredient Percent	EC Num.
68479-04-9	9.9 - 10.9 by weight	
67762-90-7	9.8 - 10.9 by weight	
90-72-2	4.8 - 5.3 by weight	
No Data	39.7 - 43.9 by weight	
1317-65-3	28.3 - 31.3 by weight	
13463-67-7	0.1 - 1 by weight	
14808-60-7	0.1 - 1 by weight	
	68479-04-9 67762-90-7 90-72-2 No Data 1317-65-3 13463-67-7	68479-04-9       9.9 - 10.9 by weight         67762-90-7       9.8 - 10.9 by weight         90-72-2       4.8 - 5.3 by weight         No Data       39.7 - 43.9 by weight         1317-65-3       28.3 - 31.3 by weight         13463-67-7       0.1 - 1 by weight

SECTION 4 :	FIRST AID	MEASURES
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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 (CO2) 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:		
Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.	
Environmental precautions:		

 Environmental Precautions:
 Avoid runoff into storm sewers, ditches, and waterways.

 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.<br/>Provide ventilation. Clean up spills immediately observing precautions in the protective equipment<br/>section. After removal, flush spill area with soap and water to remove trace residue.<br/>Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective<br/>equipment as listed in Section 8.Reference to other sections:

Other Precautions:

Pump or shovel to storage/salvage vessels.

#### 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.	

#### SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:	
<u>Titanium dioxide</u> :	
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 PROPERTIES

# PHYSICAL 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

# 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)
<u>Titanium dioxide</u> :	
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.
<u>Crystalline silica</u> :	
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:	Non regulated.
DOT UN Number:	Not applicable.
DOT Hazard Class:	Not applicable.
DOT Packing Group:	Not applicable.

# SECTION 15 : REGULATORY INFORMATION

 $\underline{Safety}, \, health \, and \, environmental regulations specific for the product:$ 

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			
<u>Titanium dioxide</u> :				
TSCA Inventory Status:	Listed			
Canada DSL:	Listed			
<u>Crystalline silica</u> :				
TSCA Inventory Status:	Listed			
Canada DSL:	Listed			
Canadian Regulations.	WHMIS Hazard Class(es): D2B;			
WHMIS Pictograms:				

# SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:		
HMIS Health Hazard:	3* Health Hazard 3*	
HMIS Fire Hazard:	1 Fire Hazard 1	
HMIS Reactivity:	1 Reactivity 1	
HMIS Personal Protection:	X Personal Protection X	
	* Chronic Health Effects	
SDS Revision Date:	January 30, 2015	
MSDS Revision Notes:	GHS Update	
SDS Format:	In accordance to OSHA GHS 1910.1200	
MSDS Author:	Actio Corporation	
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