ANSI \$ (M)SDS Format :

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MSDS Name Manufacturer Name

Stock No.:

DEVCON® Ceramic Repair Putty ITW Polymers Adhesives, North America

11700

Kit MSDS Revision Date

12/30/2012

Components				
	CERAMIC REPAIR RESIN			
	CERAMIC REPAIR HARDENER			
ITW Polymers Adhesives, North America Product Code: 11700				

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: CERAMIC REPAIR RESIN

Manufacturer Name: ITW Polymers Adhesives, North America

Address: 30 Endicott Street Danvers, MA 01923

General Phone Number: (978) 777-1100 (800) 424-9300 **Emergency Phone** Number:

CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-

9300

MSDS Revision Date: 12/30/2012



Chronic Health Effects

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Bisphenol A diglycidyl ether resin	25068-38-6	30 - 60 by weight
Fillers	N/A	30 - 60 by weight
Inert material	N/A	1 - 5 by weight
Xylene	1330-20-7	1 - 5 by weight
Trade secret.	N/A	1 - 5 by weight
Titanium dioxide	13463-67-7	1 - 5 by weight

SECTION 3: HAZARDS IDENTIFICATION

Skin:

Inhalation:

Emergency Overview: WARNING! Combustible. Potential Sensitizer. Irritant.

Route of Exposure: Eyes. Skin. Inhalation. Ingestion. Potential Health Effects:

Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal Eye:

damage and permanent injury..

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.

Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization

with asthma-like symptoms in susceptible individuals.

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

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 4: FIRST AID MEASURES

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 Eve Contact:

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.

If inhaled, remove to fresh air. If not breathing, give artificial respiration Inhalation: or give oxygen by trained personnel. Seek immediate medical attention.

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious

person.

Other First Aid: Due to possible aspiration into the lungs, DO NOT induce vomiting if

ingested. Provide a glass of water to dilute the material in the stomach. vomiting occurs naturally, have the person lean forward to reduce the

risk of aspiration.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: >250°F (121.1°C)

Flash Point Method: Pensky-Martens Closed Cup

Auto Ignition Temperature: Not determined. Lower Flammable/Explosive Not determined. Limit:

Upper Flammable/Explosive

Ingestion:

Not determined.

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.

Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving

this material

Unsuitable Media: Water or foam may cause frothing.

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA),

MSHA/NIOSH (approved or equivalent) and full protective gear

Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.. Heating above 300 deg F in the Unusual Fire Hazards:

presence of air may cause slow oxidative decomposition and above 500

deg F may cause polymerization.

SECTION 6: ACCIDENTAL RELEASE 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 Spill Cleanup Measures:

observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.

Combustible, eliminate ignition sources. At elevated temperatures, vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in section 8.

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from

entering the spill area.

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

Other Precautions: Pump or shovel to storage/salvage vessels.

SECTION 7: HANDLING and STORAGE

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.

Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Storage:

Keep container tightly closed when not in use.

Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting Special Handling Procedures:

operations and to protect against dust during sanding/grinding of cured

Hygiene Practices: Wash thoroughly after handling.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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.

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

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. A NIOSH approved air-purifying respirator with an organic vapor cartridge Respiratory Protection:

or canister may be permissible under certain circumstances where 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.

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

EXPOSURE GUIDELINES

Xylene:

Guideline ACGIH:

100 ppm TLV-STEL: 150 ppm TLV-TWA: 100 ppm

Titanium dioxide:

Guideline ACGIH: 10 ma/m3

TLV-TWA: 10 mg/m3

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

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Viscous. Liquid.. Color: Amber. Odor: Slight odor **Boiling Point:** >500°F (260°C) Melting Point: Not determined.

Specific Gravity: 1.66 Solubility: negligible Vapor Density: >1 (air = 1)Vapor Pressure: Not determined.

Percent Volatile: <3

Evaporation Rate: <<1 (butyl acetate = 1)

pH: Ne u tra I. Molecular Formula: Mixture Molecular Weight: Mixture

Flash Point: >250°F (121.1°C)

Flash Point Method: Pensky-Martens Closed Cup

Auto Ignition Temperature: Not determined.

VOC Content: 33 g/L Percent Solids by Weight

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization: Not reported

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

and oxidizing conditions. Heating resin above 300 F in the presence of air may cause slow oxidative decomposition.

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

Bisphenol A diglycidyl ether resin:

RTECS Number: SL6480000

Skin: Administration onto the skin - Rat LD : >2 gm/kg [Nutritional and Gross

Metabolic - Other changes]

Xylene:

RTECS Number: ZE2100000

Eye - Rabbit Standard Draize test.: 87 mg Eye - Rabbit Standard Draize test.: 5 mg/24H Eye - Human Standard Draize test.: 200 ppm Eve:

Administration onto the skin - Rat : 920 uL/kg/1H [Skin and Appendages - Primary irritation (After topical exposure)] Skin:

Administration onto the skin - Rat: 909.1 uL/kg/2H [Biochemical - Metabolism (Intermediary) - Other]
Administration onto the skin - Mouse: 4.21 mL/kg [Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of

Metabolism (Intermediary) - Effect on Inflammation or mediation of inflammation]
Administration onto the skin - Rabbit: >1700 mg/kg [Details of toxic effects not reported other than lethal dose value]
Administration onto the skin - Rat: 960 uL/kg/4D (Intermittent) [Skin and Appendages - Primary irritation (After topical exposure)]
Administration onto the skin - Rat: 960 uL/kg/4D (Intermittent) [Skin and Appendages - Primary irritation (After topical exposure) Biochemical Metabolism (Intermediary) - Effect on inflammation or mediation of

inflam mation1

Administration onto the skin - Rabbit : 100 %
Administration onto the skin - Rabbit : 500 mg/24H
Administration onto the skin - Rat : 60 uL/8H

Inhalation: Inhalation - Rat LC50: 5000 ppm/4H [Details of toxic effects not reported

other than lethal dose value]

Oral - Rat LD50: 4300 mg/kg [Liver - Other changes Kidney/Ureter/Bladder - Other changes] Ingestion:

Oral - Mouse LD50: 2119 mg/kg [Details of toxic effects not reported

other than lethal dose value]

Titanium dioxide:

RTECS Number: XR2275000

Skin: Administration onto the skin - Human : 300 ug/3D (Intermittent)

Carcinogenicity: IARC: Group 2B: Possibly carcinogenic to humans.

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 Number: None.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.

DOT UN Number: N/A

DOT Hazard Class: Not applicable.

DOT Packing Group: Not applicable.

SECTION 15: REGULATORY INFORMATION

Bisphenol A diglycidyl ether resin:

TSCA Inventory Status: Listed
Canada DSL: Listed

Xylene:

TSCA Inventory Status: Listed

SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

New Jersey: Listed: NJ Hazardous List; Substance Number: 2014

Massachusetts: Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Listed Canada DSL: Listed

<u>Titanium dioxide</u>:

TSCA Inventory Status: Listed
Massachusetts: Listed
Pennsylvania: Listed
Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): D2B; B3

WHMIS Hazard Class(es): D2B; B3 All components of this product are on the Canadian Domestic Substances

List.

SECTION 16: ADDITIONAL INFORMATION

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

MSDS Revision Date: 12/30/2012
MSDS Author: Actio Corporation

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: CERAMIC REPAIR HARDENER

Manufacturer Name: ITW Polymers Adhesives, North America

Address: 30 Endicott Street Danvers, MA 01923

General Phone Number: (978) 777-1100 Emergency Phone (800) 424-9300 Number:

CHEMTREC:

For emergencies in the US, call CHEMTREC: 800-424-

9300



Chronic Health Effects MSDS Revision Date: 12/30/2012

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Formaldehyde polymer with phenol and TETA	32610-77-8	30 - 60 by weight
Titanium dioxide	13463-67-7	1 - 5 by weight
PhenoI	108-95-2	10 - 30 by weight
Inert material	N/A	10 - 30 by weight
$\ensuremath{\text{2-Propenenitrile}}\xspace,$ reaction products with ethylenediamine, hydrogenated	68909-99-9	1 - 5 by weight
Triethylenetetramine	112-24-3	5 - 10 by weight

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: DANGER! Corrosive. Toxic. Harmful. Irritant.

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Corrosive. Will cause eye burns, permanent tissue damage, and Eye:

blindness.

Skin: Contact causes severe skin irritation and possible burns. may cause

permanent skin damage.

Inhalation: May cause severe respiratory system irritation.

Ingestion: Harmful if swallowed. Corrosive to the gastrointestinal tract.

Chronic Health Effects: Prolonged skin contact causes burns.

Repeated or prolonged inhalation may cause toxic effects.

Depending on solution concentration, material may be corrosive to skin, mucous membranes and eyes. Vapors may cause respiratory irritation. Signs/Symptoms:

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions:

Ingestion:

May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

SECTION 4: FIRST AID MEASURES

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 Eve Contact:

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.

If swallowed, do NOT induce vomiting. Call a physician or poison control

center immediately. Never give anything by mouth to an unconscious

SECTION 5 : FIRE FIGHTING MEASURES

Flammable Properties: Class III B. Flash Point: >250°F (121.1°C)

Flash Point Method: Pensky-Martens Closed Cup

Auto Ignition Temperature: Not determined. Lower Flammable/Explosive Not determined. Limit:

Upper Flammable/Explosive

Not determined.

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.

Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.

Unsuitable Media: Water or foam may cause frothing.

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA),

MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from

entering the spill area

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

Other Precautions: Pump or shovel to storage/salvage vessels.

SECTION 7: HANDLING and STORAGE

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.

Avoid contact with eyes and skin. Do not reuse containers without proper

cleaning or reconditioning.

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. Storage:

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

Hygiene Practices: Wash thoroughly after handling.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

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.

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. Eve/Face Protection:

Skin Protection Description:

Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes,

skin or clothing

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where Respiratory Protection:

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

EXPOSURE GUIDELINES

Titanium dioxide:

Guideline ACGIH:

10 mg/m3 TLV-TWA: 10 mg/m3

Phenol:

Guideline ACGIH:

5 ppm Skin: Yes TLV-TWA: 5 ppm

Guideline OSHA: 5 ppm

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

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Paste.. Color: White.

mild phenolic-like. Odor: **Boiling Point:** Not determined. Melting Point: Not determined.

Specific Gravity: 1.09 Solubility: Appreciable. Vapor Density: Not determined. Vapor Pressure: <1 mmHg @68°F

0 Percent Volatile:

Evaporation Rate: <<1 (butyl acetate = 1)

alkaline Molecular Formula: Mixture Molecular Weight: Mixture

Flash Point: >250°F (121.1°C)

Flash Point Method: Pensky-Martens Closed Cup

Not determined. Auto Ignition Temperature:

VOC Content: 0 g/L Percent Solids by Weight 100

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization:

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

and oxidizing conditions. Product may slowly corrode copper, aluminum,

zinc and galvanized surfaces.

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

Titanium dioxide:

Carcinogenicity:

RTECS Number:

Skin: Administration onto the skin - Human : 300 ug/3D (Intermittent)

IARC: Group 2B: Possibly carcinogenic to humans.

Phenol:

RTECS Number: SJ3325000

Eye - Rabbit Standard Draize test.: 5 mg Eye - Rabbit Rinsed with water.: 5 mg/30S

Administration onto the skin - Rat : 669 mg/kg [Behavioral - Tremor Kidney/Ureter/Bladder - Hematuria Skin and Appendages - Cutaneous Skin:

sensitization, experimental (After topical exposure)] Administration onto the skin - Mouse : 329 mg/kg/30M [Skin and

Administration onto the skin - Mouse: 329 mg/kg/30M [Skin and Appendages - Primary irritation (After topical exposure) Biochemical - Metabolism (Intermediary) - Other Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of inflammation] Administration onto the skin - Rabbit: 630 mg/kg [Details of toxic effects not reported other than lethal dose value]

Administration onto the skin - Rat: 1500 mg/kg [Details of toxic effects not reported other than lethal dose value]

Administration onto the skin - : 400 mg/kg/24W (Intermittent)

Tumoris

Administration onto the skin - Mouse: 4000 mg/kg/24W (Intermittent) [Tumorigenic - neoplastic by RTECS criteria Skin and Appendages -Tumors]

Inhalation - Mouse LC50: 177 mg/m3 [Details of toxic effects not reported other than lethal dose value] Inhalation:

Inhalation - Rat LC50: 316 mg/m3 [Details of toxic effects not reported other than lethal dose value]
Inhalation - Mouse LC50: 177 mg/m3/4H [Details of toxic effects not reported other than lethal dose value]
Inhalation - Rat LC50: 316 mg/m3/4H [Details of toxic effects not reported other than lethal dose value]

Oral - Rat LD50: 317 mg/kg [Behavioral - Convulsions or effect on Ingestion:

Oral - Mouse LD50: 270 mg/kg [Details of toxic effects not reported

other than lethal dose value]
Oral - Rat LD50: 512 mg/kg [Details of toxic effects not reported other

than lethal dose value]

Triethylenetetramine:

RTECS Number:

Eye - Rabbit Standard Draize test.: 49 mg Eye - Rabbit Standard Draize test.: 20 mg/24H Eve:

Administration onto the skin - Rabbit LD50: 805 mg/kg [Details of toxic Skin:

Administration onto the skin - Rabbit LD30. 303 injykg [Details of toxi effects not reported other than lethal dose value]
Administration onto the skin - Rabbit Open irritation test: 490 mg
Administration onto the skin - Rabbit Standard Draize test.: 5 mg/24H
Administration onto the skin - Guinea pig TDLo: 3667 mg/kg
[Reproductive - Effects on Embryo or Fetus - Fetal death]

Ingestion: Oral - Rat LD50: 2500 mg/kg [Details of toxic effects not reported other

than lethal dose value]

oral - Mouse LD50: 38.5 mg/kg [Details of toxic effects not reported other than lethal dose value]

SECTION 12: ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product. Ecotoxicity: 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 Number: Not determined.

SECTION 14: TRANSPORT INFORMATION

Refer to Bill of Lading

Refer to Bill of Lading DOT UN Number:

SECTION 15: REGULATORY INFORMATION

Formaldehyde polymer with phenol and TETA:

TSCA Inventory Status: Listed Canada DSL: Listed

Titanium dioxide:

TSCA Inventory Status: Listed Massachusetts: Listed Pennsylvania: Listed Canada DSL: Listed Phenol:

TSCA Inventory Status:

SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

EPCRA (SARA Title III) Section 302 (40 CFR Part 355) Extremely Hazardous Substances (EHS) Threshold Planning Quantity (TPQ) in pounds: 500/10,000 Lbs. Section 302 EHS:

EPCRA (SARA Title III) Section 302 Extremely Hazardous Substances (EHS) Reportable Quantities (RQ) in pounds: 1,000 Lbs. Section 302 RQ:

Listed: NJ Hazardous List; Substance Number: 1487

New Jersey: Massachusetts: Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Listed Canada DSL: Listed

2-Propenenitrile, reaction products with ethylenediamine, hydrogenated :

TSCA Inventory Status: Listed Canada DSL: Listed

<u>Triethylenetetramine</u>:

TSCA Inventory Status: Listed Massachusetts: Listed Pennsylvania: Listed Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): E; D2B; D1B

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

SECTION 16: ADDITIONAL INFORMATION

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

MSDS Revision Date: 12/30/2012 MSDS Revision Notes: "Formula change" MSDS Author: Actio Corporation

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