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MSDS Name **DEVCON® Titanium Putty** 

Manufacturer Name ITW Polymers Adhesives, North America

Stock No.: 10770 Kit MSDS Revision Date 12/30/2012

Components	
	TITANIUM PUTTY RESIN
	TITANIUM PUTTY HARDENER
ITW Polymers Adhesives, North America Product Code: 10770	

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: TITANIUM PUTTY RESIN

Manufacturer Name: ITW Polymers Adhesives, North America

Address: 30 Endicott Street Danvers, MA 01923

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

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

MSDS Revision Date: 12/30/2012

HMIS		
Health Hazard	2*	
Fire Hazard	1	
Reactivity	1	
Personal Protection	×	

\* Chronic Health Effects

### SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	
Silicon	7440-21-3	5 - 10 by weight	
Magnesium silicate hydrate	14807-96-6	5 - 10 by weight	
Iron	7439-89-6	30 - 60 by weight	
Titanium	7440-32-6	1 - 5 by weight	
Bisphenol A diglycidyl ether resin	25068-38-6	10 - 30 by weight	
Inert material	N/A	1 - 5 by weight	
Fillers	N/A	1 - 5 by weight	

## SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: WARNING! Potential Sensitizet Imitant. Route of Exposure: Eves, Skin, Inhalation, Ingestion,

Potential Health Effects:

Eye:

Skin:

Inhalation:

Signs/Symptoms:

Can cause moderate irritation, burning sensation, tearing, redness, and

swelling. Overexposure may cause lacrimation, conjunctivitis, comeal

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.

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. Overexposure can cause headaches, dizziness, nausea, and vomiting.

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

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

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 Eye Contact:

fingers. Get immediate medical attention.

Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated dothing and shoes. Skin Contact:

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.

#### SECTION 5: FIRE FIGHTING MEASURES

Flash Point: >400°F (204.4°C)

Pensky-Martens Closed Cup Flash Point Method:

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

Inaestion:

Upper Flammable/Explosive

Not determined.

Evacuate area of unprotected personnel. Use cold water spray to cool fire Fire Fighting Instructions: 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 Unusual Fire Hazards:

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.

### 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.

Avoid personal contact and breathing vapors or mists. 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 and Storage: incompatible materials. Keep container tightly closed when not in use.

Provide appropriate ventilation/respiratory protection against Special Handling Procedures:

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.

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.

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

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Facilities storing or utilizing this material should be equipped with an Other Protective:

eyewash and a deluge shower safety station.

#### EXPOSURE GUIDELINES

Silicon:

Guideline ACGIH:

Guideline OSHA:

PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)

Magnesium silicate hydrate:

Guideline ACGIH:

2 mg/m3 TLV-TWA: 1 mg/m3 Respirable fraction (R)

TLV-TWA: 2 mg/m3 Respirable fraction (R)

Guideline OSHA:

PEL-TWA: 20 mppcf

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

### SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

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

Specific Gravity: 2.5 Solubility: negligible Vapor Density: >1 (air = 1)

Vapor Pressure: 0.03 mmHg @171°F

Percent Volatile:

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

Ne utral. Molecular Formula: Mixture Molecular Weight: Mixture

>400°F (204.4°C) Flash Point:

Flash Point Method: Pensky-Martens Closed Cup

Auto Ignition Temperature: Not determined.

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: Not reported.

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: Strong Lewis or mineral acids, strong oxidizing agents, strong mineral

and organic bases (especially primary and secondary aliphatic amines).

## SECTION 11: TOXICOLOGICAL INFORMATION

Silicon:

RTECS Number: VW0400000

Eye: Eye - Rabbit Standard Draize test.: 3 mg

Oral - Rat LD50: 3160 mg/kg [Details of toxic effects not reported other than lethal dose value] Ingestion:

Magnesium silicate hydrate:

RTECS Number: WW2710000

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

Iron:

RTECS Number:

Ingestion: Oral - Rat LD50: 30 gm/kg [Nutritional and Gross Metabolic - Weight loss

or decreased weight gain]

RTECS Number: XR 1700000

Bisphenol A diglycidyl ether resin:

RTECS Number: SL6480000

Skin: Administration onto the skin - Rat LD : >2  $\,\mathrm{gm/kg}$  [Nutritional and Gross

Metabolic - Other changes]

## SECTION 12: ECOLOGICAL INFORMATION

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

Silicon:

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

Magnesium silicate hydrate:

TSCA Inventory Status:

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

<u>Iron</u>:

TSCA Inventory Status: Listed
Canada DSL: Listed

<u>Titanium</u>:

Canada DSL: Listed

Bisphenol A diglycidyl ether resin:

TSCA Inventory Status: Listed

Canada DSL: Listed

Canada DSL: Listed
Canadian Regulations. WHMIS Ha

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

List.

Listed

## 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: TITANIUM PUTTY 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

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

Formaldehyde polymer with phenol and TETA

32610-77-8

10 - 30 by weight

Phenol 108-95-2 5 - 10 by weight Non-hazardous ingredients. Not applicable 5 - 10 by weight 2-Ethyl-4-Methylimidazole 931-36-2 5 - 10 by weight Silicon 7440-21-3 1 - 5 by weight Inert material Not applicable 1 - 5 by weight Titanium dioxide 13463-67-7 1 - 5 by weight Tita niu m 7440-32-6 1 - 5 by weight 14808-60-7 Crystalline silica 0.1 - 1 by weight Triethy|enetetramine 112-24-3 1 - 5 by weight

#### SECTION 3: HAZARDS IDENTIFICATION

DANGER! Corrosive, Potential Sensitizer Irritant, Emergency Overview:

Route of Exposure: Eves, Skin, Inhalation, Ingestion,

Potential Health Effects:

Ingestion:

Target Organs:

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. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident

on reexposure to this material.

Inhalation: May cause severe respiratory system irritation. May cause respiratory

sensitization with asthma-like symptoms in susceptible individuals. 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, Signs/Symptoms:

mucous membranes and eyes. Vapors may cause respiratory irritation. Eyes. Skin. Respiratory system. Digestive system. Central nervous

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.

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

Ingestion:

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

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. If vomiting occurs naturally, have the person lean forward to reduce the

risk of aspiration.

### SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties: Class III B. Flash Point: 277°F (136.1°C)

Flash Point Method: Pensky-Martens Closed Cup

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

Upper Flammable/Explosive

Not determined.

Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined Fire Fighting Instructions:

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.

As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear. Protective Equipment:

### 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

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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

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

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 Storage:

incompatible materials. Keep container tightly closed when not in use. Do not store in reactive metal containers. Keep away from acids, oxidizers.

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

product.

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.

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: 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

### Magnesium silicate hydrate:

Guideline ACGIH:

TLV-TWA: 1 mg/m3 Respirable fraction (R) TLV-TWA: 2 mg/m3 Respirable fraction (R)

Guideline OSHA:

20 mppcf PEL-TWA: 20 mppcf

Phenol:

Guideline ACGIH: 5 ppm

Skin: Yes TLV-TWA: 5 ppm

Guideline OSHA: 5 ppm

Skin: Yes PEL-TWA: 5 ppm

Silicon:

Guideline ACGIH:

Guideline OSHA:

15 mg/m3
PEL-TWA: 15 mg/m3 Total particulate/dust (T)

PEL-TWA: 5 mg/m3 Respirable fraction (R)

<u>Titanium dioxide</u>:

Guideline ACGIH: 10 mg/m3

TLV-TWA: 10 mg/m3

Crystalline silica:

Guideline ACGIH:

0.025 mg/m3 TLV-TWA: 0.025 mg/m3 Respirable fraction (R)

Guideline OSHA:  $[10 \text{ mg/m3}]/[\{\% \text{ SiO2}\} + 2]$ 

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

## SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Paste.. Color: off-white. Odor: Am moniacal. Boiling Point: >350°F (176.6°C) Melting Point: Not determined.

Specific Gravity: 1.78 Solubility Appre cia ble Percent Volatile:

Flash Point:

Evaporation Rate: Not determined.

pH: 9.5-10.0 @ 5 Percent Solution

Molecular Formula: Mixture

Molecular Weight:

Flash Point Method: Pensky-Martens Closed Cun

Auto Ignition Temperature: Not determined.

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

### SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

277°F (136.1°C)

Hazardous Polymerization: Not reported.

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

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

Iron:

RTECS Number:

Ingestion: Oral - Rat LD50: 30 gm/kg [Nutritional and Gross Metabolic - Weight loss

or decreased weight gain]

Magnesium silicate hydrate:

RTECS Number: WW2710000

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

Phenol:

RTECS Number: SJ3325000

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

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

sensitization, experimental (After topical exposure)] Administration onto the skin - Rabbit: 630 mg/kg/30M [Skin and Appendages - Primary irritation (After topical exposure) Biochemical - Metabolism (Intermediary) - Other Biochemical - Metabolism (Intermediary) - Grammation or mediation of inflammation] Administration onto the skin - Rabbit: 630 mg/kg [Details of toxic

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 uL/30S
Administration onto the skin - Rabbit: 535 mg
Administration onto the skin - Rabbit: 100 mg
Administration onto the skin - Mouse: 16 gm/kg/40W (Intermittent)
[Tumorigenic - carcinogenic by RTECS criteria Skin and Appendages -

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

Tumors]

Inhalation: Inhalation - Mouse LC50: 177 mg/m3 [Details of toxic effects not

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

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: seizure threshold1

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]

RTECS Number: NI6147500

Silicon:

RTECS Number: VW0400000

Eye - Rabbit Standard Draize test.: 3 mg

Oral - Rat LD50: 3160 mg/kg [Details of toxic effects not reported other Ingestion:

than lethal dose value]

Titanium dioxide:

RTECS Number:

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

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

RTECS Number: XR 1700000

Crystalline silica:

RTECS Number: VV7330000

Carcinogenicity: IARC: Group 1: Carcinogenic to humans. NTP: Reasonably anticipated to be a human carcinogen.

Triethylenetetramine:

RTECS Number: YE6650000

Eye - Rabbit Standard Draize test.: 49 mg

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]

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

Oral - Mouse LD50: 38.5 mg/kg [Details of toxic effects not reported

other than lethal dose value]

#### 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.

#### SECTION 14: TRANSPORT INFORMATION

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

### SECTION 15: REGULATORY INFORMATION

#### Formaldehyde polymer with phenol and TETA:

TSCA Inventory Status: Listed Canada DSL: Listed

<u>Iron</u>:

TSCA Inventory Status: Listed Canada DSL: Listed

Magnesium silicate hydrate:

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

Phenol:

TSCA Inventory Status: Listed

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

Section 302 EHS: EPCRA (SARA Title III) Section 302 (40 CFR Part 355) Extremely

Hazardous Substances (EHS) Threshold Planning Quantity (TPQ) in pounds: 500/10,000 Lbs.

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

New Jersey: Listed: NJ Hazardous List; Substance Number: 1487 Listed: Massachusetts Oil and Hazardous List Massachusetts:

Pennsylvania: Listed Canada DSL: Listed

2-Ethyl-4-Methylimidazole:

TSCA Inventory Status: Listed

Canada DSL: Listed

Silicon:

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

<u>Titanium dioxide</u>:

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

<u>Titanium</u>:

TSCA Inventory Status: Listed Canada DSL: Listed

<u>Crystalline silica</u>:

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

Triethy lenetetramine:

TSCA Inventory Status: Listed Canadian Regulations. WHMIS Hazard Class(es): D2B; E; D2A

## WHMIS Pictograms



# SECTION 16: ADDITIONAL INFORMATION

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

MSDS Revision Date: 12/30/2012

MSDS Revision Notes: "PhysChem change - Corrosive"

MSDS Author: Actio Corporation

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