



MSDS Name: **DEVCON® Titanium Putty**  
 Manufacturer Name: ITW Devcon  
 Stock No.: 10760

<b>Components:</b>	
	TITANIUM PUTTY HARDENER
	TITANIUM PUTTY RESIN
ITW Performance Polymers (Finished Goods) Product Code : 10760	

**View Section :** [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#)

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **TITANIUM PUTTY RESIN**  
 Manufacturer Name: ITW Devcon  
 Address: 30 Endicott Street  
 Danvers, MA 01923  
 MSDS Revision Date: 10/10/2006  
 Emergency telephone number (800) 424-9300

**HMIS**

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

\* Chronic Health Effects:

**In the US, call CHEMTREC: (800) 424-9300**

[To Top of page](#)

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	
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

[To Top of page](#)

**SECTION 3: HAZARDS IDENTIFICATION**

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

**Primary Routes of Exposure:** Eyes. Skin. Inhalation. Ingestion.

**Potential Health Effects:**

**Eye Contact:** Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury..

**Skin Contact:** 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.
<b>Inhalation:</b>	Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.
<b>Ingestion:</b>	Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.
<b>Chronic Health Effects:</b>	Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction
<b>Signs/Symptoms:</b>	Overexposure can cause headaches, dizziness, nausea, and vomiting.
<b>Target Organs:</b>	Eyes. Skin. Respiratory system. Digestive system.
<b>Aggravation of Pre-Existing Conditions:</b>	Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

[To Top of page](#)

## SECTION 4: FIRST AID MEASURES

<b>Eye Contact:</b>	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.
<b>Skin Contact:</b>	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.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

[To Top of page](#)

## SECTION 5: FIRE FIGHTING MEASURES

<b>Auto Ignition Temp :</b>	Not determined.
<b>Flash Point:</b>	>400°F (204.4°C)
<b>Flash Point Method:</b>	Pensky-Martens Closed Cup
<b>Lower Explosive Limit (LEL)</b>	Not determined.
<b>Upper Explosive Limit (UEL)</b>	Not determined.
<b>Extinguishing Media:</b>	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
<b>Protective Equipment:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Fire Fighting Instructions:</b>	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.
<b>Unsuitable Media:</b>	Water or foam may cause frothing.

[To Top of page](#)

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
<b>Spill Cleanup Measures:</b>	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.
<b>Environmental Precautions:</b>	Avoid runoff into storm sewers, ditches, and waterways.
<b>Other Precautions:</b>	Pump or shovel to storage/salvage vessels.

[To Top of page](#)

## SECTION 7: HANDLING AND STORAGE

<b>Handling:</b>	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
<b>Storage:</b>	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.
<b>Hygiene Practices:</b>	Wash thoroughly after handling.
<b>Special Handling Procedures:</b>	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.

[To Top of page](#)

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

<b>Engineering Controls:</b>	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.
<b>Skin Protection Description:</b>	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
<b>Eye/Face Protection:</b>	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.
<b>Respiratory Protection:</b>	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.
<b>Other Protective:</b>	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

### **Silicon:**

Guideline OSHA : OSHA PEL-TWA 15 mg/m<sup>3</sup>

### **Magnesium silicate hydrate:**

Guideline ACGIH : ACGIH TLV-TWA 2 mg/m<sup>3</sup>

Guideline OSHA : OSHA PEL-TWA 20 mppcf

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

[To Top of page](#)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State/Appearance:</b>	Viscous Liquid.
<b>Odor:</b>	slight odor
<b>Boiling Point:</b>	>500°F (260°C)
<b>Melting / Freezing Point :</b>	Not determined.
<b>Solubility:</b>	negligible
<b>Specific Gravity:</b>	2.5
<b>pH:</b>	Neutral.
<b>Vapor Density:</b>	>1 (air = 1)
<b>Vapor Pressure:</b>	0.03 mmHg @171°F
<b>Molecular Formula:</b>	Mixture
<b>Molecular Weight:</b>	Mixture
<b>Percent Volatile:</b>	0
<b>VOC Data :</b>	0 g/L
<b>Percent Solids by Weight</b>	100

[To Top of page](#)

## SECTION 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	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.
<b>Incompatibilities with Other Materials:</b>	Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines).
<b>Hazardous Polymerization:</b>	Not reported.

[To Top of page](#)

## SECTION 11: TOXICOLOGICAL INFORMATION

### **Silicon:**

Eye Effect: Eye - Rabbit Standard Draize Test : 3 mg - [mild](RTECS)

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

### **Magnesium silicate hydrate:**

Skin Effects: Skin - Human Standard Draize Test : 300 ug/3D-I - [mild](RTECS)

### **Iron:**

**Ingestion Effects:** Oral - Rat LD50: 30 gm/kg - [Nutritional and Gross Metabolic - weight loss or decreased weight gain ] (RTECS)

**Bisphenol A diglycidyl ether resin:**

**Skin Effects:** Skin - rat LD: >2 gm/kg - [Nutritional and Gross Metabolic - other changes] (RTECS)

**Ingestion Effects:** Oral - Rat LD: >5 gm/kg - [Nutritional and Gross Metabolic - other changes] (RTECS)

[To Top of page](#)

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## SECTION 12: ECOLOGICAL INFORMATION

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**Ecotoxicity:** No ecotoxicity data was found for the product.

**Environmental Fate:** No environmental information found for this product.

[To Top of page](#)

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**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

[To Top of page](#)

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## SECTION 14: TRANSPORT INFORMATION

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**DOT Shipping Name:** Non regulated.

**DOT UN Number:** N/A

**DOT Hazard Class:** Not applicable.

**DOT Packing Group:** Not applicable.

[To Top of page](#)

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## SECTION 15: REGULATORY INFORMATION

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**Silicon:**

**TSCA Inventory Status** Listed

**State:** Listed in the State of Massachusetts Hazardous Substance List.  
Listed in the Pennsylvania State Hazardous Substances List.

**Magnesium silicate hydrate:**

**TSCA Inventory Status** Listed

**State:** Listed in the State of Massachusetts Hazardous Substance List.  
Listed in the Pennsylvania State Hazardous Substances List.

**Bisphenol A diglycidyl ether resin:**

**TSCA Inventory Status** Listed

**EC Num :** 603-074-00-8

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

[To Top of page](#)

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## SECTION 16: ADDITIONAL INFORMATION

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**HMIS Health Hazard:** 2\*

**HMIS Fire Hazard:** 1

**HMIS Reactivity:** 1

**HMIS Personal Protection:** x

**MSDS Revision Date:** 10/10/2006

**Disclaimer:** "This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment."

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **TITANIUM PUTTY HARDENER**  
 Manufacturer Name: ITW Devcon  
 Address: 30 Endicott Street  
 Danvers, MA 01923  
 MSDS Revision Date: 10/10/2006  
 Emergency telephone number (800) 424-9300

**HMIS**

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

\* Chronic Health Effects:

**In the US, call CHEMTREC: (800) 424-9300**

[To Top of page](#)

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	
Formaldehyde polymer with phenol and TETA	32610-77-8	10 - 30 by Weight
Iron	7439-89-6	10 - 30 by Weight
Magnesium silicate hydrate	14807-96-6	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
Titanium	7440-32-6	1 - 5 by Weight
Crystalline silica	14808-60-7	0.1 - 1 by Weight
Triethylenetetramine	112-24-3	1 - 5 by Weight

[To Top of page](#)

**SECTION 3: HAZARDS IDENTIFICATION**

**Emergency Overview:** WARNING! Harmful. Potential Sensitizer. Irritant.

**Primary Routes 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 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. Central nervous 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.

[To Top of page](#)

## SECTION 4: FIRST AID MEASURES

<b>Eye Contact:</b>	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.
<b>Skin Contact:</b>	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.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

[To Top of page](#)

## SECTION 5: FIRE FIGHTING MEASURES

<b>Flammable Properties :</b>	Class III B.
<b>Auto Ignition Temp :</b>	Not determined.
<b>Flash Point:</b>	277°F (136.1°C)
<b>Flash Point Method:</b>	Pensky-Martens Closed Cup
<b>Lower Explosive Limit (LEL)</b>	Not determined.
<b>Upper Explosive Limit (UEL)</b>	Not determined.
<b>Extinguishing Media:</b>	Use carbon dioxide (CO <sub>2</sub> ) or dry chemical when fighting fires involving this material.
<b>Protective Equipment:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Fire Fighting Instructions:</b>	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.
<b>Unsuitable Media:</b>	Water or foam may cause frothing.

[To Top of page](#)

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
<b>Spill Cleanup Measures:</b>	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.
<b>Environmental Precautions:</b>	Avoid runoff into storm sewers, ditches, and waterways.
<b>Other Precautions:</b>	Pump or shovel to storage/salvage vessels.

[To Top of page](#)

## SECTION 7: HANDLING AND STORAGE

<b>Handling:</b>	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
<b>Storage:</b>	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.
<b>Hygiene Practices:</b>	Wash thoroughly after handling.
<b>Special Handling Procedures:</b>	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.

[To Top of page](#)

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

<b>Engineering Controls:</b>	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.
<b>Skin Protection Description:</b>	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
<b>Eye/Face Protection:</b>	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 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.

**Magnesium silicate hydrate:**

Guideline ACGIH : ACGIH TLV-TWA 2 mg/m<sup>3</sup>

Guideline OSHA : OSHA PEL-TWA 20 mppcf

**Phenol:**

Guideline ACGIH : ACGIH TLV-TWA 5 ppm

Guideline OSHA : OSHA PEL-TWA 5 ppm

**Silicon:**

Guideline OSHA : OSHA PEL-TWA 15 mg/m<sup>3</sup>

**Titanium dioxide:**

Guideline ACGIH : ACGIH TLV-TWA 10 mg/m<sup>3</sup>

**Crystalline silica:**

Guideline ACGIH : ACGIH TLV-TWA 0.025 mg/m<sup>3</sup>

Guideline OSHA : OSHA PEL-TWA [10 mg/m<sup>3</sup>]/[% SiO<sub>2</sub>] + 2]

**Notes :**

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

[To Top of page](#)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:	Paste.
Color:	off-white.
Odor:	Ammoniacal.
Boiling Point:	>350°F (176.6°C)
Melting / Freezing Point :	Not determined.
Solubility:	Appreciable.
Specific Gravity:	1.78
pH:	9.5-10.0 @ 5 Percent Solution
Vapor Density:	Not determined.
Vapor Pressure:	<10.4 mmHg @70°F
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Percent Volatile:	0
VOC Data :	0 g/L
Percent Solids by Weight	100

[To Top of page](#)

## 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.

[To Top of page](#)

## SECTION 11: TOXICOLOGICAL INFORMATION

**Iron:**

Ingestion Effects: Oral - Rat LD50: 30 gm/kg - [Nutritional and Gross Metabolic - weight loss or decreased weight gain ] (RTECS)

**Magnesium silicate hydrate:**

Skin Effects: Skin - Human Standard Draize Test : 300 ug/3D-I - [mild](RTECS)

**Phenol:**

Eye Effect: Eye - Rabbit Rinsed with water : 5 mg/30S - [mild ](RTECS)

**Skin Effects:**

Skin - Rat Standard Draize Test : 100 mg - [mild ](RTECS)  
 Skin - Rat LD50: 630 mg/kg - [Details of toxic effects not reported other than lethal dose value ](RTECS)  
 Skin - Rat LD50: 1500 mg/kg - [Details of toxic effects not reported other than lethal dose value ](RTECS)

Skin - Rat LD50: 669 mg/kg - [Behavioral - tremor Kidney/Ureter/Bladder - hematuria Skin and Appendages - cutaneous sensitization, experimental (after topical exposure) ](RTECS)  
Inhalation Effects: Inhalation - Rat LC50: 316 mg/m<sup>3</sup> - [Details of toxic effects not reported other than lethal dose value] (RTECS)  
Inhalation - Mouse LC50: 177 mg/m<sup>3</sup>/4H - [Details of toxic effects not reported other than lethal dose value] (RTECS)  
Inhalation - Mouse LC50: 177 mg/m<sup>3</sup> - [Details of toxic effects not reported other than lethal dose value] (RTECS)  
Ingestion Effects: Oral - Rat LD50: 317 mg/kg - [oral - convulsions or effect on seizure threshold ] (RTECS)  
Oral - Mouse LD50: 270 mg/kg - [Details of toxic effects not reported other than lethal dose value ] (RTECS)

#### **Silicon:**

Eye Effect: Eye - Rabbit Standard Draize Test : 3 mg - [mild ](RTECS)  
Ingestion Effects: Oral - Rat LD50: 3160 mg/kg - [Details of toxic effects not reported other than lethal dose value ] (RTECS)

#### **Titanium dioxide:**

Skin Effects: Skin - Human Standard Draize Test : 300 ug/3D-I - [mild](RTECS)  
Inhalation Effects: Inhalation - 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)  
Ingestion Effects: Oral - Rat TDLo - Lowest published toxic dose: 60 gm/kg - [Gastrointestinal - hypermotility, diarrhea Gastrointestinal - other changes ] (RTECS)  
Carcinogenicity: IARC: Group 2B: Possibly carcinogenic to humans

#### **Crystalline silica:**

Inhalation Effects: Inhalation - 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)  
Ingestion Effects: Oral - Rat TDLo - Lowest published toxic dose: 120 gm/kg - [Gastrointestinal - hypermotility, diarrhea Gastrointestinal - other changes ] (RTECS)  
Carcinogenicity: IARC: Group 1: Carcinogenic to humans  
NTP: Reasonably anticipated to be a human carcinogen

#### **Triethylenetetramine:**

Eye Effect: Eye - Rabbit Standard Draize Test : 20 mg/24H - [Moderate](RTECS)  
Skin Effects: Skin - Rat Standard Draize Test : 5 mg/24H - [severe](RTECS)  
Skin - Rat LD50: 805 mg/kg - [Details of toxic effects not reported other than lethal dose value ](RTECS)  
Ingestion Effects: Oral - Rat LD50: 2500 mg/kg - [Details of toxic effects not reported other than lethal dose value ] (RTECS)  
Oral - Mouse LD50: 38.5 mg/kg - [Details of toxic effects not reported other than lethal dose value ] (RTECS)

[To Top of page](#)

## SECTION 12: ECOLOGICAL INFORMATION

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

[To Top of page](#)

## 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

[To Top of page](#)

## SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.  
DOT UN Number: N/A  
DOT Hazard Class: Not applicable.  
DOT Packing Group: Not applicable.

[To Top of page](#)

## SECTION 15: REGULATORY INFORMATION

#### **Magnesium silicate hydrate:**

State: Listed in the State of Massachusetts Hazardous Substance List.

**Phenol:****State:**

Listed in the Pennsylvania State Hazardous Substances List.

Listed in the State of Massachusetts Hazardous Substance List.  
Listed in the New Jersey State Right to Know List.  
Listed in the Pennsylvania State Hazardous Substances List.

**Silicon:****State:**

Listed in the State of Massachusetts Hazardous Substance List.  
Listed in the Pennsylvania State Hazardous Substances List.

**Titanium dioxide:****State:**

Listed in the State of Massachusetts Hazardous Substance List.  
Listed in the Pennsylvania State Hazardous Substances List.

**Crystalline silica:****State:**

Listed in the State of Massachusetts Hazardous Substance List.  
Listed in the Pennsylvania State Hazardous Substances List.

**Triethylenetetramine:****State:**

Listed in the State of Massachusetts Hazardous Substance List.  
Listed in the Pennsylvania State Hazardous Substances List.

**Canadian Regulations.**

WHMIS Hazard Class(es): D2B; D2A  
All components of this product are on the Canadian Domestic Substances List.

[To Top of page](#)

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**SECTION 16: ADDITIONAL INFORMATION**

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HMIS Health Hazard: 3\*

HMIS Fire Hazard: 1

HMIS Reactivity: 1

HMIS Personal Protection: x

MSDS Revision Date: 10/10/2006

Disclaimer: "This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment."