

MSDS Name **Magic Bond™ Epoxy Putty**
 Manufacturer Name ITW Devcon
 Stock No.: 11600
 Kit MSDS Revision Date 12/15/2009

Components :	
	Magic Bond™ Putty Resin
	Magic Bond™ Putty Hardener
ITW Devcon Product Code : 11600	

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Magic Bond™ Putty Resin
MSDS Manufacturer Number: 0170
Manufacturer Name: ITW Devcon
Address: 30 Endicott Street
 Danvers, MA 01923
General Phone Number: (978) 777-1100
Emergency Phone Number: (800) 424-9300
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300
Canutec: In Canada, call CANUTEC: (613) 996-6666 (call collect)
MSDS Revision Date: 12/15/2009

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

* Chronic Health Effects:

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Non-hazardous ingredients.	N/A	30 - 60 by weight
Bisphenol A diglycidyl ether resin	25068-38-6	10 - 30 by weight
Magnesium silicate hydrate	14807-96-6	10 - 30 by weight
Crystalline silica	14808-60-7	0.1 - 1 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: WARNING! Potential Sensitizer Irritant.
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. 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 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

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

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point:	>400°F (204.4°C)
Flash Point Method:	Pensky-Martens Closed Cup
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	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 (CO ₂) 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.
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.

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 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.
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.
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.
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.
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.

EXPOSURE GUIDELINES

Magnesium silicate hydrate:

Guideline ACGIH:	2 mg/m ³ TLV-TWA: 1 mg/m ³ Respirable fraction (R) TLV-TWA: 2 mg/m ³ Respirable fraction (R)
Guideline OSHA:	20 mppcf

PEL-TWA : 20 mppcf

Crystalline silica :

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

Guideline OSHA : [10 mg/m3]/[% SiO2} + 2]

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

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Putty
Odor: slight odor
Boiling Point: >500°F (260°C)
Melting Point: Not determined.
Specific Gravity: 1.19
Solubility: negligible
Vapor Density: >1
Vapor Pressure: 0.03 mmHg @171°F
Percent Volatile: 0
Evaporation Rate: <<1
Molecular Formula: Mixture
Molecular Weight: Mixture
Flash Point: >400°F (204.4°C)
Flash Point Method: Pensky-Martens Closed Cup
Auto Ignition Temperature: Not determined.
VOC Content: 0
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

RTECS Number: SL6480000
RTECS Number: WW2710000
Crystalline silica :
RTECS Number: VV7330000
Carcinogenicity: IARC: Group 1: Carcinogenic to humans.
NTP: Reasonably anticipated to be a human carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

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

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
RCRA 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

Bisphenol A diglycidyl ether resin :

TSCA Inventory Status: Listed
 Canada DSL: Listed

Magnesium silicate hydrate :

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

Crystalline silica :

TSCA Inventory Status: Listed
 Massachusetts: Listed
 Pennsylvania: Listed
 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



SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard: 1
 HMIS Health Hazard: 2*
 HMIS Reactivity: 1
 HMIS Personal Protection: X
 MSDS Revision Date: 12/15/2009
 MSDS Author: Actio Corporation
 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.

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Magic Bond™ Putty Hardener**
 MSDS Manufacturer Number: 0272
 Manufacturer Name: ITW Devcon
 Address: 30 Endicott Street
 Danvers, MA 01923
 General Phone Number: (978) 777-1100
 Emergency Phone Number: (800) 424-9300
 CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300
 Canutec: In Canada, call CANUTEC: (613) 996-6666 (call collect)
 MSDS Revision Date: 12/15/2009

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

* Chronic Health Effects:

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Titanium dioxide	13463-67-7	1 - 10 by weight
Magnesium silicate hydrate	14807-96-6	60 - 100 by weight
Polymercaptan curing agent	TSRN 679485-5016P	10 - 30 by weight
Teta, reaction products with propylene oxide	26950-63-0	1 - 5 by weight

Fillers	N/A	1 - 5 by weight
Triethylenetetramine	112-24-3	1 - 5 by weight
Crystalline silica	14808-60-7	0.1 - 1 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:	WARNING! Potential Sensitizer Irritant.
Route of Exposure:	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. 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.
Aggravation of Pre-Existing Conditions:	Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point:	300°F (148.8°C)
Flash Point Method:	Tag closed cup (TCC)
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	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 (CO ₂) 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 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.
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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.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 1.0) during welding/flame cutting 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:	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.

EXPOSURE GUIDELINES

Titanium dioxide :

Guideline ACGIH:	10 mg/m ³ TLV-TWA: 10 mg/m ³
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Magnesium silicate hydrate :

Guideline ACGIH:	2 mg/m ³ TLV-TWA: 1 mg/m ³ Respirable fraction (R) TLV-TWA: 2 mg/m ³ Respirable fraction (R)
Guideline OSHA:	20 mppcf PEL-TWA: 20 mppcf

Crystalline silica :

Guideline ACGIH:	0.025 mg/m ³ TLV-TWA: 0.025 mg/m ³ Respirable fraction (R)
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Guideline OSHA:	[10 mg/m ³]/[{% SiO ₂ } + 2]
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Notes : Only established PEL and TLV values for the ingredients are listed.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Putty.
Color:	Viscous. Amber.
Odor:	Sulfur like.
Boiling Point:	Not determined.
Melting Point:	Not determined.
Specific Gravity:	1.8-2.0
Solubility:	negligible
Vapor Density:	Not determined.
Vapor Pressure:	<<1 mmHg @70°F
Percent Volatile:	0
Evaporation Rate:	Not determined.
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	300°F (148.8°C)
Flash Point Method:	Tag closed cup (TCC)
Auto Ignition Temperature:	Not determined.
VOC Content:	0
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

Incompatible Materials:

oxidizing conditions.
 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 :**

RTECS Number: XR2275000
 Carcinogenicity: IARC: Group 2B: Possibly carcinogenic to humans.
 RTECS Number: WW2710000

Triethylenetetramine :

RTECS Number: YE6650000
 Eye: Eye - Rabbit Standard Draize Test.: 49 mg
 Eye - Rabbit Standard Draize Test.: 20 mg/24H
 Skin: Oral - Rat LD50: 2500 mg/kg [Details of toxic effects not reported other than lethal dose value.]
 Intraperitoneal. - Mouse LD50: 468 mg/kg [Details of toxic effects not reported other than lethal dose value.]
 Intravenous. - Mouse LD50: 350 mg/kg [Details of toxic effects not reported other than lethal dose value.]
 Oral - Rabbit LD50: 5500 mg/kg [Details of toxic effects not reported other than lethal dose value.]
 Administration onto the skin - Rabbit LD50: 805 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.]
 Administration onto the skin - Rabbit Open irritation test: 490 mg
 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.]

Crystalline silica :

RTECS Number: VV7330000
 Carcinogenicity: IARC: Group 1: Carcinogenic to humans.
 NTP: Reasonably anticipated to be a human carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

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

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
 RCRA 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**Titanium dioxide :**

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

Magnesium silicate hydrate :

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

Teta, reaction products with propylene oxide :

TSCA Inventory Status: Listed
Canada DSL: Listed
Triethylenetetramine:
TSCA Inventory Status: Listed
Massachusetts: Listed
Pennsylvania: Listed
Canada DSL: Listed
Crystalline silica:
TSCA Inventory Status: Listed
Massachusetts: Listed
Pennsylvania: Listed
Canada DSL: Listed
Canadian Regulations. WHMIS Hazard Class(es): D2B; D2A

WHMIS Pictograms



SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard: 1
HMIS Health Hazard: 2*
HMIS Reactivity: 1
HMIS Personal Protection: X
MSDS Revision Date: 12/15/2009
MSDS Author: Actio Corporation
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.

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