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MSDS Name DEVCON® Plastic Steel® Putty (A)

ITW Devcon Manufacturer Name Stock No.: 10130 Kit MSDS Revision Date 12/30/2012

Components	
	PLASTIC STEEL PUTTY (A) RESIN
	PLASTIC STEEL PUTTY (A) HARDENER
	ITW Devcon Product Code: 10130

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: PLASTIC STEEL PUTTY (A) RESIN

Manufacturer Name: ITW Devoon 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-

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	
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	
Silicon	7440-21-3	10 - 30 by weight	
Non-hazardous ingredients.	N/A	1 - 5 by weight	
Pillers	N/A	1 - 5 by weight	

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overviews WARNING! Potential Sensitizer Irritant. Route of Exposure: Eyes, Skin, Inhalation, Ingestion.

Potential Health Effects: Eve:

Inhalation:

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.

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

with asthma-like symptoms in susceptible individuals.

Ingestion: Causes imitation, 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. Signs/Symptoms:

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. 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.

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

person

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: >400°F (204.4°C)

Pensky-Martens Closed Cup Flash Point Method:

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:

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.

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 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: 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

EXPOSURE GUIDELINES

Silicon:

Guideline ACGIH:

Guideline OSHA: 15 ma/m3

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

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

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

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Paste.. Color: dark grey. Odor: slight odor >500°F (260°C) Boiling Point: Melting Point: Not determined

Specific Gravity: 2.8 Solubility: negligible Vapor Density: >1 (air = 1) Vapor Pressure: 0.03 mmHg @171°F

Percent Volatile: Evaporation Rate: <<1 (butyl a cetate = 1)

pH: Ne utra I. Molecular Formula: Mixture Molecular Weight: Mixture

>400°F (204.4°C) Flash Point:

Flash Point Method: Pensky-Martens Closed Cup

Not determined. Auto Ignition Temperature:

VOC Content: 0 a/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

Iron:

RTECS Number: NO4565500

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

or decreased weight gain]

XR1700000 RTECS Number:

Bisphenol A diglycidyl ether resin:

RTECS Number: SL6480000

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

Metabolic - Other changes]

Silicon:

RTECS Number: VW0400000

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

Ingestion: Oral - Rat LD50: 3160 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.

RCRA Number:

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.

DOT UN Number:

DOT Hazard Class: Not applicable. DOT Packing Group: Not applicable.

SECTION 15 - REGULATORY INFORMATION

Iron:

TSCA Inventory Status: Listed Canada DSL: Listed

Titanium:

TSCA Inventory Status: Listed Canada DSL: Listed Bisphenol A diglycidyl ether resin: TSCA Inventory Status: Listed Canada DSL: Listed Silicon:

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

WHMIS Hazard Class(es): D2B Canadian Regulations.

All components of this product are on the Canadian Domestic Substances

List.

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard: HMIS Health Hazard: 2* HMIS Reactivity: 1 HMIS Personal Protection: MSDS Revision Date:

12/30/2012 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

PLASTIC STEEL PUTTY (A) HARDENER Product Name:

Manufacturer Name:

30 Endicott Street Address: Danvers, MA 01923 (978) 777-1100 General Phone Number: Emergency Phone (800) 424-9300

Number:

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

9300

MSDS Creation Date: 7/19/2012 MSDS Revision Date: 7/19/2012

HMIS	
Health Hazard	3*
Fire Hazard	1
Reactivity	0
Personal Protection	х

Chronic Health Effects

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Inert material	N/ A	5 - 10 by weight
Triethylenetetramine	112-24-3	1 - 5 by weight
2-Propenenitrile, reaction products with ethylenediamine, hydrogenated	68909-99-9	10 - 30 by weight
Titanium dioxide	13463-67-7	0.1 - 1 by weight

Emergency Overview: DANGER! Corrosive. Potential Sensitizer Irritant.

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

Potential Health Effects:

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

Contact causes severe skin irritation and possible burns, may cause permanent skin damage. Allergic reactions are possible. Skin:

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

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.

Signs/Symptoms: Depending on solution concentration, material may be corrosive to skin,

mucous membranes and eyes. Vapors may cause respiratory irritation.

Eyes. Skin. Respiratory system. Digestive system. Central nervous

system

Aggravation of Pre-Existing

Target Organs:

Ingestion:

Individuals with pre-existing skin disorders, asthma, allergies or known Conditions: 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 Eye Contact:

fingers. Get immediate medical attention.

Immediately wash skin with plenty of soap and water for 15 to 20 Skin Contact:

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 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. 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: >200°F (93.3°C) Flash Point Method: Tag closed cup (TCC) Auto Ignition Temperature: Not determined.

Lower Flammable/Explosive

Personnel Precautions:

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

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

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 remova

flush spill area with soap and water to remove trace residue. Corrosive. Avoid personal contact and breathing vapors or mists. Ventilate

area. Use proper personal protective equipment as listed in section 8 Evacuate area and keep unnecessary and unprotected personnel from

entering the spill area

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

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.

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.

Provide appropriate ventilation/respiratory protection against Special Handling Procedures:

decomposition products (see Section 10) during welding/flame cutting

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:

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

skin or dothing.

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.

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

eyewash and a deluge shower safety station.

EXPOSURE GUIDELINES

<u>Titanium dioxide</u>:

Guideline ACGIH:

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

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

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Paste Color: White

Odor: Mild ammonia like Boiling Point: >450°F (232.2°C) Melting Point: Not determined.

Specific Gravity: 0.98

Solubility: slightly soluble.

Vapor Density: >1

Vapor Pressure: <10 mmHg @70°F

Percent Volatile: 0 Evaporation Rate: <1 Molecular Formula: Mixture Molecular Weight: Mixture

Flash Point: >200°F (93.3°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 oxidizing conditions. Product may slowly corrode copper, aluminum,

zinc and galvanized surfaces.

Oxidizers, acids, and chlorinated organic compounds. Reactive metals Incompatible Materials:

(e.g. sodium, calcium, zinc). Sodium/calcium hypochlorite. Nitrous acid/oxide, nitrites. Peroxides. Materials reactive with hydroxyl compounds.

SECTION 11 - TOXICOLOGICAL INFORMATION

Triethylenetetramine:

RTECS Number: YE6650000

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: 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]

other than lethal dose value]

<u>Titanium dioxide</u>:

RTECS Number:

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.

SECTION 14 - TRANSPORT INFORMATION

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

SECTION 15 - REGULATORY INFORMATION

 $\underline{\textbf{Triethylenetetramine}}:$

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

2-Propenenitrile, reaction products with ethylenediamine, hydrogenated:

TSCA Inventory Status: Listed Canada DSL: Listed

Titanium dioxide:

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

Canadian Regulations. WHMIS Hazard Class(es): D2B; E; D2A

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard: 1 HMIS Health Hazard: 3* HMIS Reactivity: 0 HMIS Personal Protection:

MSDS Creation Date: 7/19/2012 MSDS Revision Date: 7/19/2012 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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