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MSDS Name Manufacturer Name Stock No.:

ITW Polymers Adhesives, North America

DEVCON® Plastic Steel® 5 Minute® Putty (SF)

10240

Kit MSDS Revision Date 12/30/2012

Components				
	PLASTIC STEEL 5-MINUTE PUTTY (SF) RESIN			
	PLASTIC STEEL 5-MINUTE PUTTY(SF) HARDENER			
ITW Polymers Adhesives, North America Product Code: 10240				

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: PLASTIC STEEL 5-MINUTE PUTTY (SF) RESIN

Manufacturer Name: ITW Polymers Adhesives, North America Address: 30 Endicott Street

Danvers, MA 01923 General Phone Number: (978) 777-1100 (800) 424-9300 **Emergency Phone**

Number: CHEMTREC:

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

9300

MSDS Revision Date: 12/30/2012



Chronic Health Effects

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Iron	7439-89-6	30 - 60 by weight
Bisphenol A diglycidyl ether resin	25068-38-6	30 - 60 by weight
Titanium	7440-32-6	1 - 5 by weight
Silicon	7440-21-3	10 - 30 by weight
Inert material	N/A	1 - 5 by weight
Fillers	N/A	1 - 5 by weight
Carbon black	1333-86-4	0.1 - 1 by weight

SECTION 3: HAZARDS IDENTIFICATION

Eve:

Skin:

Inhalation:

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

Potential Health Effects:

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

damage and permanent injury...

Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident

on reexposure to this material.

Respiratory tract irritant. High concentration may cause dizziness,

headache, and anesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.

Causes irritation, a burning sensation of the mouth, throat and Ingestion:

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

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Eye Contact:

Ensure adequate flushing of the eyes by separating the eyelids with 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.

If inhaled, remove to fresh air. If not breathing, give artificial respiration Inhalation:

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

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: >400°F (204.4°C)

Flash Point Method: Pensky-Martens Closed Cup

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

Upper Flammable/Explosive

Not determined.

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

exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off

water.

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

this material.

Unsuitable Media: Water or foam may cause frothing.

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 Special Handling Procedures:

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.

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

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)

Carbon black:

Guideline ACGIH:

3.5 mg/m3 TLV-TWA: 3.5 mg/m3

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. Boiling Point: >500°F (260°C) Not determined. Meltina Point:

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

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

pH: Neutral. 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 g/L Percent Solids by Weight 100

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization: Not reported.

Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Heating resin above 300 F in the presence of air Conditions to Avoid:

may cause slow oxidative decomposition.

Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines). Incompatible Materials:

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]

Bisphenol A diglycidyl ether resin:

RTECS Number:

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

RTECS Number: XR1700000

Silicon:

VW0400000 RTECS Number:

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:

Carbon black:

RTECS Number: FF5800000

Administration onto the skin - Rabbit : >3 gm/kg [Details of toxic effects Skin:

Administration onto the skin - Rat: 11 gm/kg/4W (Intermittent) [Blood Pigmented or nucleated red blood cells Liver - Changes in liver weight Nutritional and Gross Metabolic - Weight loss or decreased weight gain]

Oral - Rat LD50: >15400 mg/kg [Behavioral - Somnolence (general Ingestion:

depressed activity)]

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

SECTION 12: ECOLOGICAL INFORMATION

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

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the

classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

RCRA Number: None.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.

DOT UN Number: N/A

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

SECTION 15: REGULATORY INFORMATION

Iron:

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

<u>Titanium</u>:

TSCA Inventory Status: Listed Canada DSL: Listed

Silicon:

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

Carbon black:

TSCA Inventory Status: Listed California PROP 65: Listed: cancer. 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.

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

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: PLASTIC STEEL 5-MINUTE PUTTY (SF) HARDENER

Manufacturer Name: ITW Polymers Adhesives, North America 30 Endicott Street Address:

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

Number:

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

9300

MSDS Revision Date: 12/30/2012



Chronic Health Effects

Chemical Name	CAS#	Ingredient Percent
Trade secret.	N/A	30 - 60 by weight
Inert material	N/A	1 - 5 by weight
Fillers	N/A	30 - 60 by weight
Titanium dioxide	13463-67-7	1 - 5 by weight
Crystalline silica	14808-60-7	0.1 - 1 by weight

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: CAUTION! Potential Sensitizer. Irritant. Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Can cause severe eye irritation and burns. Eye contact may cause Eve:

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.

Vapor or mist may cause severe respiratory system irritation. May cause respiratory sensitization with asthma-like symptoms in susceptible Inhalation:

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.

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

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties: Class III B. Flash Point: >200°F (93.3°C)

Flash Point Method: Pensky-Martens Closed Cup

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

Personnel Precautions:

Ingestion:

Upper Flammable/Explosive Not determined.

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

exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

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

this material.

Unsuitable Media: Water or foam may cause frothing.

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 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.

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:

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 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

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne Engineering Controls:

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 Eye/Face Protection:

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 Respiratory Protection:

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 eyewash and a deluge shower safety station. Other Protective:

EXPOSURE GUIDELINES

Titanium dioxide:

Guideline ACGIH: 10 ma/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: Puttv.

Color: Viscous. Amber.. Odor: Mercaptan. Boiling Point: Not determined. Melting Point: Not determined.

Specific Gravity: > 1.1 Solubility: negligible. Vapor Density: Not determined Vapor Pressure: <<1 mmHg @70°F

Percent Volatile: 0

Evaporation Rate: Not determined.

pH: 9.5 @ 5 Percent Solution

Molecular Formula: Mixture Molecular Weight: Mixture

>200°F (93.3°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

Stable under normal temperatures and pressures. Chemical Stability:

Hazardous Polymerization: Not reported.

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

and oxidizing conditions.

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

<u>Titanium dioxide</u>:

RTECS Number: XR2275000

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

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

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:

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

Titanium dioxide:

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

Crystalline silica:

TSCA Inventory Status: Listed Listed Massachusetts: 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.

SECTION 16: ADDITIONAL INFORMATION

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

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

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