## **SAFETY DATA SHEET**

1. Identification

Product identifier DEVCON® Aluminum Putty (F) Resin

Other means of identification

**SKU#** 0102

Recommended use Not available.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ITW Performance Polymers

Address 30 Endicott Street

Danvers, MA 01923 United States

**Telephone** Customer Service 978-777-1100

Website www.itwperformancepolymers.com

E-mail Not available.

Contact person EHS Department

Emergency phone number Chemtrec 800-424-9300

International 703-527-3887

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A
Sensitization, skin Category 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

**Precautionary statement** 

**Prevention** Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated

work clothing must not be allowed out of the workplace. Wear eye protection/face protection.

Wear protective gloves.

Response If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take

off contaminated clothing and wash it before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Aluminum Flake		7429-90-5	40 - 70
Epoxy Resin:reaction Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin)		25068-38-6	15 - 40
Calcium Carbonate		1317-65-3	10 - 30
Other components below reportable	e levels		0.1 - 1

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

**General information** 

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Use water spray to cool unopened containers.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

applicable, use process enclosures, local exhaust ventilation, or other engineering controls t maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level. Provide eyewash station and sa shower.  ividual protection measures, such as personal protective equipment  Eye/face protection  Face shield is recommended. Wear safety glasses with side shields (or goggles).  Skin protection  Hand protection  Wear appropriate chemical resistant gloves.	Components	s for Air Contaminants (29 CFR 1910. <sup>-</sup> Type	Value	Form
Calcium Carbonate (CAS 1317-65-3)   PEL 5 mg/m3   Total dust.	•	PEL	5 mg/m3	Respirable fraction.
US. OSHA Table Z-3 (29 CFR 1910.1000) Components  Type  Value Form  Aluminum Flake (CAS 7429-90-5)  US. ACGIH Threshold Limit Values Components  Type Value Form  15 mg/m3 Total dust. 50 mppcf Total dust. 15 mppcf Respirable fraction. 15 mp/m3 Respirable fraction. 15 mg/m3 Respirable fraction. 16 mg/m3 Respirable fraction. 17 mg/m3 Respirable fraction. 17 mg/m3 Respirable fraction. 17 mg/m3 Respirable. 10 mg/m3 Total 13 mg/m3 Respirable. 14 mg/m3 Respirable. 15 mg/m3 Respirable. 16 mg/m3 Respirable. 17 mg/m3 Respirable. 18 mg/m3 Respirable. 19 mg/m3 Respirable. 10 mg/m3			15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910.1000)   Components		PEL	5 mg/m3	Respirable fraction.
Type			15 mg/m3	Total dust.
7429-90-5)  US. ACGIH Threshold Limit Values Components  Type Value Form  Aluminum Flake (CAS 7429-90-5)  US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  TWA 5 mg/m3 Respirable. 10 mg/m3 Total  Calcium Carbonate (CAS 1317-65-3)  TWA 5 mg/m3 Respirable. 10 mg/m3 Total  logical limit values Comporiate engineering Cod general ventilation should be used. Ventilation rates should be matched to conditions, applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level. Provide eyewash station and se shower.  Widual protection measures, such as personal protective equipment Eye/face protection Hand protection Hand protection Wear appropriate chemical resistant gloves.  Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		•	Value	Form
US. ACGIH Threshold Limit Values Components  Type Value Form  Aluminum Flake (CAS 7429-90-5)  US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  TWA 5 mg/m3 Respirable 5 mg/m3 Respirable. 10 mg/m3 Total  Calcium Carbonate (CAS 1317-65-3)  TWA 5 mg/m3 Respirable. 10 mg/m3 Total  Calcium Carbonate (CAS 1317-65-3)  Total  Calcium Carbonate (CAS 10 mg/m3 Total  Calcium Carbonate (CA		TWA	5 mg/m3	Respirable fraction.
US. ACGIH Threshold Limit Values Components  Type Value Form  Aluminum Flake (CAS 7429-90-5)  US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  TWA 5 mg/m3 Respirable 10 mg/m3 Total  Calcium Carbonate (CAS 1317-65-3)  TWA 5 mg/m3 Respirable. 10 mg/m3 Total  Calcium Carbonate (CAS 1317-65-3)  Total  Calcium Carbonate (CAS 10 mg/m3 Total  Ca			15 mg/m3	Total dust.
Type   Value   Form			50 mppcf	Total dust.
Components   Type   Value   Form			15 mppcf	Respirable fraction.
Aluminum Flake (CAS TWA 1 mg/m3 Respirable fraction.  VS. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS TWA 5 mg/m3 Welding fume or pyrophoric powder.  5 mg/m3 Respirable.  10 mg/m3 Total  Calcium Carbonate (CAS TWA 5 mg/m3 Respirable.  1317-65-3)  TWA 5 mg/m3 Respirable.  10 mg/m3 Total  Calcium Carbonate (CAS TWA 5 mg/m3 Respirable.  1317-65-3)  Total  Iogical limit values  No biological exposure limits noted for the ingredient(s).  Good general ventilation should be used. Ventilation rates should be matched to conditions. applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level. Provide eyewash station and sa shower.  Invidual protection measures, such as personal protective equipment  Eye/face protection  Face shield is recommended. Wear safety glasses with side shields (or goggles).  Skin protection  Hand protection  Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.				_
US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form  Aluminum Flake (CAS 7429-90-5)  Aluminum Flake (CAS 7429-90-5)  TWA 5 mg/m3 Respirable. 10 mg/m3 Total  Calcium Carbonate (CAS 1317-65-3)  TWA 5 mg/m3 Respirable. 10 mg/m3 Total  Calcium Carbonate (CAS 1317-65-3)  No biological exposure limits noted for the ingredient(s). Good general ventilation should be used. Ventilation rates should be matched to conditions applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level. Provide eyewash station and satisface protection Eye/face protection Hand protection Wear appropriate chemical resistant gloves.  Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.	Components	Туре	Value	Form
Type   Value   Form		TWA	1 mg/m3	Respirable fraction.
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7429-90-5)  752 mg/m3  7541  7541  75 mg/m3  75 mg/m3  7541  75 mg/m3  75 mg/m	Components		Value	Form
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Calcium Carbonate (CAS 1317-65-3)  TWA 5 mg/m3 Respirable.  10 mg/m3 Total  logical limit values Propriate engineering applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level. Provide eyewash station and satisface protection measures, such as personal protective equipment  Eye/face protection  Hand protection  Wear appropriate chemical resistant gloves.  Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.			5 mg/m3	Respirable.
logical limit values Propriate engineering applicable, use process enclosures, local exhaust ventilation, or other engineering controls maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level. Provide eyewash station and sa shower.  Skin protection Hand protection  Wear appropriate chemical resistant gloves.  Other  No biological exposure limits noted for the ingredient(s).  Good general ventilation should be used. Ventilation rates should be matched to conditions. applicable, use process enclosures, local exhaust ventilation, or other engineering controls t maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level. Provide eyewash station and sa shower.  Face shield is recommended. Wear safety glasses with side shields (or goggles).  Skin protection  Hand protection  Wear appropriate chemical resistant gloves.  Other			10 mg/m3	Total
No biological exposure limits noted for the ingredient(s).  Good general ventilation should be used. Ventilation rates should be matched to conditions. applicable, use process enclosures, local exhaust ventilation, or other engineering controls t maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level. Provide eyewash station and sa shower.  ividual protection measures, such as personal protective equipment  Eye/face protection  Face shield is recommended. Wear safety glasses with side shields (or goggles).  Skin protection  Hand protection  Wear appropriate chemical resistant gloves.  Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		TWA	5 mg/m3	Respirable.
Good general ventilation should be used. Ventilation rates should be matched to conditions applicable, use process enclosures, local exhaust ventilation, or other engineering controls t maintain airborne levels below recommended exposure limits. If exposure limits have not be established, maintain airborne levels to an acceptable level. Provide eyewash station and sa shower.  ividual protection measures, such as personal protective equipment  Eye/face protection  Skin protection  Hand protection  Wear appropriate chemical resistant gloves.  Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.			10 mg/m3	Total
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Eye/face protection  Skin protection  Hand protection  Wear appropriate chemical resistant gloves.  Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safet shower.		
Hand protection Wear appropriate chemical resistant gloves.  Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.				s (or goggles).
	•	Wear appropriate chemical resistant	gloves.	
Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment		Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
	•	Wear appropriate chemical resistant	clothing. Use of an impervious	apron is recommended.

General hygiene considerations

Thermal hazards

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

_		
Appearance	Paste.	
Physical state	Solid.	
Form	Paste.	
Color	Grey.	

Wear appropriate thermal protective clothing, when necessary.

Material name: DEVCON® Aluminum Putty (F) Resin

Odor Slight.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling

range

608 °F (320 °C) estimated

Flash point > 399.9 °F (> 204.4 °C)

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure Vapor density Not available. Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)
Partition coefficient

Not available. Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 2.17 g/cm3 estimated

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Specific gravity 2.17 estimated

**VOC** 0 g/l

### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

tics Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not known.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

### 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

Material name: DEVCON® Aluminum Putty (F) Resin

SDS US 5/7 0102 Version #: 01 Issue date: 05-29-2019

### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Aluminum Flake (CAS 7429-90-5)

% 1.0

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Aluminum Flake (CAS 7429-90-5) Listed.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation Respiratory or skin sensitization

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Aluminum Flake	7429-90-5	40 - 70

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

**US** state regulations

**California Proposition 65** 



**WARNING:** This product can expose you to Quartz, which is known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov.

## California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Aluminum Flake (CAS 7429-90-5)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No

On inventory (yes/no)\* Country(s) or region Inventory name

Korea Existing Chemicals List (ECL) New Zealand New Zealand Inventory Yes Philippines

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

05-29-2019 Issue date

Version # 01

Health: 2 HMIS® ratings

Flammability: 1 Physical hazard: 0

Health: 2 NFPA ratings

Flammability: 1 Instability: 0

ITW Performance Polymers cannot anticipate all conditions under which this information and its **Disclaimer** 

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance

for safe handling, use, processing, storage, transportation, disposal and release.

Material name: DEVCON® Aluminum Putty (F) Resin 0102 Version #: 01 Issue date: 05-29-2019

Yes

## SAFETY DATA SHEET

## 1. Identification

Product identifier Putty Hardener

Other means of identification

SKU# 0200C

Recommended use Not available.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ITW Performance Polymers

Address 30 Endicott Street

Danvers, MA 01923 United States

**Telephone** Customer Service 978-777-1100

Website www.itwperformancepolymers.com

E-mail Not available.

Contact person EHS Department

Emergency phone number Chemtrec 800-424-9300

International 703-527-3887

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Acute toxicity, dermal Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
Sensitization, skin Category 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. May cause an allergic

skin reaction. Causes serious eye damage.

**Precautionary statement** 

Prevention Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat,

drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves/protective clothing.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with

plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it

before reuse.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Aliphatic Amines		N/A	40 - 60
Benzyl Alcohol		100-51-6	20 - 40
TRIETHYLENETETRAMINE	TETA	112-24-3	20 - 40
Silicon Dioxide	Silica, amorphous, fumed, crystfree	112945-52-5	2.5 - 10
Titanium Dioxide	TITANIUM DIOXIDE	13463-67-7	0.1 - 1
Other components below reportable levels			0.1 - 1

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. Get medical Skin contact advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical

attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Ingestion

and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and

delayed Indication of immediate

medical attention and special treatment needed

**General information** 

under observation. Symptoms may be delayed.

Water spray. Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground. **Environmental precautions** 

## 7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Do not taste or swallow. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	Form
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910	.1000)		
Components	Туре	Value	Form
Silicon Dioxide (CAS 112945-52-5)	TWA	0.8 mg/m3	
		20 mppcf	
Titanium Dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
Silicon Dioxide (CAS 112945-52-5)	TWA	6 mg/m3	
US. Workplace Environmental Ex	posure Level (WEEL) Guides		
Components	Туре	Value	
Benzyl Alcohol (CAS 100-51-6)	TWA	44.2 mg/m3	
		10 ppm	
TRIETHYLENETETRAMIN E (CAS 112-24-3)	TWA	6 mg/m3	
		1 ppm	

**Biological limit values**No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** Occupational Exposure Limits are not relevant to the current physical form of the product.

**US WEEL Guides: Skin designation** 

TRIETHYLENETETRAMINE (CAS 112-24-3)

Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield. Face shield is

recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

Paste. **Appearance** Physical state Solid. **Form** Paste. Color White

Ammoniacal. Odor **Odor threshold** Not available. Not available. pН

4.64 °F (-15.2 °C) estimated Melting point/freezing point Initial boiling point and boiling 420.8 °F (216 °C) estimated

range

> 199.9 °F (> 93.3 °C) Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

Vapor pressure 5.73 hPa estimated

Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** 640 °F (337.78 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Density** 1.00 g/cm3 estimated

**Explosive properties** Not explosive. Not oxidizing. **Oxidizing properties** Specific gravity 1 estimated

### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the decomposition temperature. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Peroxides. Phenols.

Hazardous decomposition

No hazardous decomposition products are known.

products

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Skin contact

Eye contact Causes serious eye damage.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

**Acute toxicity** Harmful in contact with skin. Harmful if swallowed.

Components **Species** Test Results

Benzyl Alcohol (CAS 100-51-6)

**Acute** Dermal

LD50 Rabbit

2000 mg/kg

Inhalation

LC50 Rat 1000 mg/l, 8 Hours

Oral

LD50 Rat 1230 - 3100 mg/kg

Silicon Dioxide (CAS 112945-52-5)

**Acute** Oral

> 22500 mg/kg LD50 Rat

TRIETHYLENETETRAMINE (CAS 112-24-3)

Acute

**Dermal** 

Liquid

1465 mg/kg LD50 Rat

Oral Liquid

LD50

Rat 1716 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eve damage/eve Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Silicon Dioxide (CAS 112945-52-5) 3 Not classifiable as to carcinogenicity to humans.

Titanium Dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

## **US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Benzyl Alcohol 1.1

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

Classified hazard

categories

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US state regulations**

## **California Proposition 65**



WARNING: This product can expose you to Titanium Dioxide, which is known to the State of California to

cause cancer. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

Titanium Dioxide (CAS 13463-67-7) Listed: September 2, 2011

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Titanium Dioxide (CAS 13463-67-7)

#### International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes

New Zealand New Zealand Inventory Yes **Philippines** Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

07-03-2019 Issue date 01-12-2021 **Revision date** 

Version # 05 **HMIS®** ratings Health: 3

Flammability: 1 Physical hazard: 0

Material name: Putty Hardener SDS US

0200C Version #: 05 Revision date: 01-12-2021 Issue date: 07-03-2019

On inventory (yes/no)\*

NFPA ratings Health: 3

Flammability: 1 Instability: 0

**Disclaimer** ITW Performance Polymers cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance

for safe handling, use, processing, storage, transportation, disposal and release.

**Revision information**This document has undergone significant changes and should be reviewed in its entirety.

Material name: Putty Hardener sps us

0200C Version #: 05 Revision date: 01-12-2021 Issue date: 07-03-2019