# SAFETY DATA SHEET

## 1. Identification

Product identifier DEVCON® Stainless Steel Putty (ST) Hardener

Other means of identification

**SKU#** 5304N

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 1A
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

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage.

May cause an allergic skin reaction. Causes serious eye damage.

**Precautionary statement** 

Prevention Do not breathe dust or mists. Avoid breathing mist/vapors. 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 protective gloves/protective clothing/eye protection/face protection.

**Response** Rinse mouth. If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to

fresh air and keep comfortable for breathing. 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. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it

before reuse.

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

# 3. Composition/information on ingredients

Mixture	98
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Chemical name	Common name and synonyms	CAS number	%
Fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products With Tall-oil Fatty Acids And Triethylenetetramine	POLYAMIDE RESIN	68082-29-1	30 - 60
TRIETHYLENETETRAMINE	TETA	112-24-3	30 - 60
Silicon Dioxide	Silica, amorphous, fumed, crystfree	112945-52-5	5 - 10
Other components below reportable levels			1 - <3

## 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. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. 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. Call a physician or poison control center immediately. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

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Most important

symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

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.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

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

Move containers from fire area if you can do so without risk.

Specific methods
General fire hazards

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

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. Avoid breathing mist/vapors. 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

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid breathing mist/vapors. Avoid prolonged exposure. 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 locked up. 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	Type	` Value	Form
Silicon Dioxide (CAS 112945-52-5)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		0.8 mg/m3	
NIOSH. Immediately Dangerous	to Life or Health (IDLH) Values,	as amended	
Components	Туре	Value	
Silicon Dioxide (CAS 112945-52-5)	IDLH	3000 mg/m3	
US. NIOSH: Pocket Guide to Ch	emical Hazards Recommended	Exposure Limits (REL)	
Components	Туре	Value	
Silicon Dioxide (CAS 112945-52-5)	TWA	6 mg/m3	
US. OARS. Workplace Environm	nental Exposure Level (WEEL) G	Guide	
Components	Туре	Value	
TRIETHYLENETETRAMIN	TWA	6 mg/m3	

E (CAS 112-24-3) 1 ppm

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

**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. Eye wash facilities and emergency

shower must be available when handling this product.

## 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

**Appearance** Paste.

Liquid. **Physical state Form** Paste. White Color

Odor Ammoniacal. Not available. Odor threshold Not available.

53.6 °F (12 °C) estimated Melting point/freezing point 510.8 °F (266 °C) estimated Initial boiling point and boiling

range

Flash point

290.0 °F (143.3 °C) estimated

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Explosive limit - lower (%) Not available. Not available.

Vapor pressure 0.0005 hPa estimated

Not available. Vapor density Relative density Not available.

Explosive limit - upper (%)

Solubility(ies)

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

(n-octanol/water)

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

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

Other information

1.05 g/cm3 estimated Density

**Explosive properties** Not explosive.

Combustible IIIB estimated Flammability class

Oxidizing properties Not oxidizing. Specific gravity 1.05 estimated

VOC 0 q/l

## 10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability** Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials.

Peroxides. Phenols. Incompatible materials

Hazardous decomposition No hazardous decomposition products are known.

products

#### 11. Toxicological information

#### Information on likely routes of exposure

May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Inhalation

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

Eye contact Causes serious eye damage.

Causes digestive tract burns. Harmful if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

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

Components Species Test Results

Silicon Dioxide (CAS 112945-52-5)

<u>Acute</u> Oral

LD50 Rat > 22500 mg/kg

TRIETHYLENETETRAMINE (CAS 112-24-3)

Acute
Dermal
Liquid

LD50 Rat 1465 mg/kg

**Oral** *Liquid* 

LD50 Rat 1716 mg/kg

**Skin corrosion/irritation**Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

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

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silicon Dioxide (CAS 112945-52-5)

3 Not classifiable as to carcinogenicity 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.

**Chronic effects** Prolonged inhalation may be harmful.

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 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

**Disposal instructions** Dispose of this material and its container to hazardous or special waste collection point. 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.

Material name: DEVCON® Stainless Steel Putty (ST) Hardener 5304N Version #: 08 Revision date: 08-20-2024 Issue date: 06-16-2019 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

**UN** number UN2735

**UN proper shipping name** Amines, liquid, corrosive, n.o.s, or Polyamines, liquid, corrosive, n.o.s.

(TRIETHYLENETETRAMINE), Limited Quantity

Transport hazard class(es)

Class 8 Subsidiary hazard 8 Label(s) Packing group Ш **Environmental hazards** 

> Marine pollutant No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

B2, IB2, T11, TP1, TP27 Special provisions

154 Packaging exceptions 202 Packaging non bulk 242 Packaging bulk

**IATA** 

**UN** number UN2735

**UN** proper shipping name Transport hazard class(es) Amines, liquid, corrosive, n.o.s. (TRIETHYLENETETRAMINE), Limited Quantity

Class 8 **Subsidiary hazard** Ш Packing group **Environmental hazards** No.

**ERG Code** 81

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Allowed with restrictions. Cargo aircraft only

**IMDG** 

**UN** number UN2735

**UN proper shipping name** AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(TRIETHYLENETETRAMINE), Limited Quantity

Transport hazard class(es)

8 Class Subsidiary hazard Ш Packing group

**Environmental hazards** 

Marine pollutant No. **EmS** F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

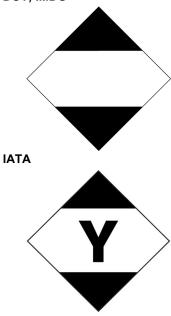
Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not established.

Material name: DEVCON® Stainless Steel Putty (ST) Hardener

### DOT; IMDG



## 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)

Yes

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

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

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**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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	No

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) Europe No Japan Inventory of Existing and New Chemical Substances (ENCS) No Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes **Philippines** Yes

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

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

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

06-16-2019 Issue date **Revision date** 08-20-2024

Version # 08

**HMIS®** ratings Health: 3

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 3

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.

**Revision information** Hazard(s) identification: Prevention

Hazard(s) identification: Response

Accidental release measures: Personal precautions, protective equipment and emergency

procedures

Handling and storage: Precautions for safe handling Physical & Chemical Properties: Multiple Properties

GHS: Classification

Material name: DEVCON® Stainless Steel Putty (ST) Hardener

5304N Version #: 08 Revision date: 08-20-2024 Issue date: 06-16-2019

SDS US

<sup>\*</sup>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).