SAFETY DATA SHEET

1. Identification

1. Identification			
Product identifier	DEVCON® Ceramic Repair Putty Hardener		
Other means of identification			
SKU#	5333N		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplie	er/Distributor information		
Manufacturer			
Company name	ITW Performance Polymers		
Address	30 Endicott Street		
	Danvers, MA 01923 United States		
Telephone	Customer Service 978-77	7-1100	
Website	www.itwperformancepolymers.com		
E-mail	Not available.		
Contact person	EHS Department		
Emergency phone number	Chemtrec 800-42		
	International 703-52	1-0001	
2. Hazard(s) identificatio	n		
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	
	Germ cell mutagenicity	Category 2	
	Specific target organ toxicity, single e	exposure Category 1	
	Specific target organ toxicity, repeate exposure	ed 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. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure.		
Precautionary statement			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read		

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe 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	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 ski irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash i 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.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Formaldehyde, Oligomeric Reaction Products With Phenol And Triethylenetetramine	Formaldehyde, oligomeric reaction products with phenol and triethylenetetramine	32610-77-8	40 - 60
Phenol		108-95-2	10 - 20
TRIETHYLENETETRAMINE	ТЕТА	112-24-3	10 - 20
Titanium Dioxide	TITANIUM DIOXIDE	13463-67-7	2.5 - 10
Benzyl Alcohol		100-51-6	1 - 2.5
Other components below reportable levels			10 - 20

4. First-aid measures

4. Thist-alu 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. Get medical 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.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	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. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). 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	Alcohol resistant foam. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	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	Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

General fire hazards

Material name: DEVCON® Ceramic Repair Putty Hardener 5333N Version #: 07 Revision date: 08-01-2023 Issue date: 05-28-2019

6 Accidental release measures

6. Accidental release mea	sures	
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 breathe 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. Put material in suitable, covered, labeled containers. 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	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. 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	Туре	Value	Form
Phenol (CAS 108-95-2)	PEL	19 mg/m3	
		5 ppm	
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 Permissible	Exposure Limits (PEL) for Min	eral Dusts (29 CFR 1910.1000)
Components	Туре	Value	Form
Titanium Dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		FO	Total dust.
		50 mppcf	Total dust.
		50 mppcf 15 mppcf	Respirable fraction.
US_ACGIH Threshold Limit Valu	ies (TLV)		
	ies (TLV) Type		
US. ACGIH Threshold Limit Valu Components Phenol (CAS 108-95-2)	. ,	15 mppcf	Respirable fraction.
Components	Туре	15 mppcf Value	Respirable fraction.
Components Phenol (CAS 108-95-2) Titanium Dioxide (CAS	Type TWA	15 mppcf Value 5 ppm	Respirable fraction. Form Respirable finescale
Components Phenol (CAS 108-95-2) Titanium Dioxide (CAS 13463-67-7)	TWA TWA	15 mppcf Value 5 ppm 2.5 mg/m3 0.2 mg/m3	Respirable fraction. Form Respirable finescale particles Respirable nanoscale
Components Phenol (CAS 108-95-2) Titanium Dioxide (CAS 13463-67-7) NIOSH. Immediately Dangerous	TWA TWA	15 mppcf Value 5 ppm 2.5 mg/m3 0.2 mg/m3	Respirable fraction. Form Respirable finescale particles Respirable nanoscale
Components Phenol (CAS 108-95-2) Titanium Dioxide (CAS	Type TWA TWA to Life or Health (IDLH) Values,	15 mppcf Value 5 ppm 2.5 mg/m3 0.2 mg/m3 as amended	Respirable fraction. Form Respirable finescale particles Respirable nanoscale

Titanium Dioxide (CAS 13463-67-7) US. NIOSH: Pocket Guide Components Phenol (CAS 108-95-2)		Н	5000 mg/m3	
Components				
Phenol (CAS 108-95-2)	Тур		Exposure Limits (REL) Value	
	Cei	ling	60 mg/m3	
		0	15.6 ppm	
	TW	A	19 mg/m3	
			5 ppm	
US. OARS. Workplace Env Components	-			
	Тур			
Benzyl Alcohol (CAS 100-51-6)	TW	A	44.2 mg/m3	
			10 ppm	
TRIETHYLENETETRAMIN E (CAS 112-24-3)	TW	A	6 mg/m3	
L (CAS 112-24-3)			1 ppm	
ological limit values				
ACGIH Biological Exposu Components	re Indices (BEI) Value	Determinant	Specimen Sampling Time	
Phenol (CAS 108-95-2)	250 mg/g	Phenol with	Creatinine in *	
		hydrolysis	urine	
* - For sampling details, plea	ase see the source do	cument.		
posure guidelines				
US - California OELs: Skir	-	0		
Phenol (CAS 108-95-2) US - Minnesota Haz Subs:			be absorbed through the skin.	
Phenol (CAS 108-95-2)			designation applies.	
US - Tennessee OELs: Sk			5 11	
Phenol (CAS 108-95-2) US ACGIH Threshold Limi			be absorbed through the skin.	
Phenol (CAS 108-95-2) US NIOSH Pocket Guide to			ger of cutaneous absorption 1	
Phenol (CAS 108-95-2) US WEEL Guides: Skin de		Can	be absorbed through the skin.	
TRIETHYLENETETRA US. OSHA Table Z-1 Limit	. ,		be absorbed through the skin. 1000)	
Phenol (CAS 108-95-2)		-	be absorbed through the skin.	
ppropriate engineering ntrols	applicable, use pro maintain airborne	ocess enclosures, levels below reco	used. Ventilation rates should be matched to conditions local exhaust ventilation, or other engineering controls mmended exposure limits. If exposure limits have not be s to an acceptable level. Provide eyewash station and s	to een
lividual protection measure Eye/face protection			nent por cartridge and full facepiece.	
Skin protection Hand protection	Wear appropriate	chemical resistan	doves	
Other			colothing. Use of an impervious apron is recommended.	
				•
Respiratory protection	Chemical respirate	or with organic va	oor cartridge and full facepiece.	
	Wear appropriate	مرينا ومعرفة والمعرفة والمعرفة والمع	clothing, when necessary.	

Observe any medical surveillance requirements. 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.
Physical state	Liquid.
Form	Paste.
Color	White.
Odor	Mild. Phenolic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	53.6 °F (12 °C) estimated
Initial boiling point and boiling range	510.8 °F (266 °C) estimated
Flash point	>199.9 °F (>93.3 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	3 % estimated
Explosive limit - upper (%)	10 % estimated
Vapor pressure	0.27 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	640 °F (337.78 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.20 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.2 estimated
VOC	0 g/l
10. Stability and reactivity	1

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	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Aluminum. Peroxides. Phenols.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Inhalation

Information on likely routes of exposure

May cause damage to organs by inhalation. Prolonged inhalation may be harmful.

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

herzył Alcohol (CAS 100-51-6) Acute Dormal LD50 Rabbit 2000 mg/kg Inhalation LC50 Rat > 4.17799999999999999999999999999999999999	Acute toxicity	Harmful in contact with skin. H	larmful if swallowed.
Acute Dormal 2000 mg/kg LD50 Rabbit 2000 mg/kg Inhalation > 2.000 mg/kg LD50 Rat > Oral 2.000 mg/kg 2.000 mg/kg LD50 Rat 2.000 mg/kg Acute Damal 669 mg/kg Dormal Example 2.0000 mg/kg Dormal 2.0000 mg/kg 2.0000 mg/kg Dormal 2.0000 mg/kg 2.0000 mg/kg Oral 2.0000 mg/kg 2.0000 mg/kg Dormal > 10000 mg/kg 2.0000 mg/kg Oral 2.0000 mg/kg 2.0000 mg/kg LD50 Rat 2.0000 mg/kg RETHYLENETETAMINE (CAS 11/2-24/3)' > 10000 mg/kg LD50 Rat 1.0000 mg/kg Skin sensitization Maresi senious eye damage.	Components	Species	Test Results
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Inhalation	Dermal		
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Not listed.	Not listed.		
Reproductive toxicity This product is not expected to cause reproductive or developmental effects.	••	- · · ·	
	Reproductive toxicity	This product is not expected t	o cause reproductive or developmental effects.

Specific target organ toxicity - single exposure	Causes damage to organs.		
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure.		
12. Ecological informatio	n		
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-octar	iol / water (log Kow)		
Benzyl Alcohol	1.1		
Phenol	1.46		
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 consideration	ins		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused	Dispose of in accordance with local regulations. Empty containers or liners may retain some		

Waste from residues / unused
productsDispose 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 packagingSince 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.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. 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.
US EPCRA (SARA Title I	II) Section 313 - Toxic Chemical: De minimis concentration
Phenol (CAS 108-95-	2) % 1.0
US EPCRA (SARA Title I	II) Section 313 - Toxic Chemical: Listed substance
Phenol (CAS 108-95-	2) Listed.
Toxic Substances Control A	:t (TSCA)
TSCA Section 12(b) Exp	ort Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substar	ice List (40 CFR 302.4)
Phenol (CAS 108-95-2)	Listed.

SARA 304 Emergency release notification

Phenol (CAS 108-95-2)

1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)	
Phenol	108-95-2	1000		500	10000	
SARA 311/312 Hazard chemical	dous Yes					
Classified hazard categories	Skin corros Serious eye Respiratory Germ cell r	Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitization Germ cell mutagenicity Specific target organ toxicity (single or repeated exposure)				
SARA 313 (TRI report	ting)					
Chemical name		C	AS number	% by wt.		
Phenol		1	08-95-2	10 - 20		
er federal regulations						
Clean Air Act (CAA) S	Section 112 Hazard	ous Air Polluta	nts (HAPs) List			
Phenol (CAS 108- Clean Air Act (CAA) S	,	lental Release	Prevention (40 CFR 6	8.130)		
Not regulated.						
Safe Drinking Water A (SDWA)	Act Not regulat	ed.				
FEMA Priority Su	ubatanaga Bagnirat	ny Haalth and	Cofety in the Elever N	Manufacturing Workpla	ace	
Phenol (CAS		bry nealth and	-			
Phenol (CAS		Dry nealth and	Low priority			
Phenol (CAS state regulations	108-95-2)	-	Low priority	tions (Cal. Code Regs,		
Phenol (CAS state regulations	108-95-2)	-	Low priority			
Phenol (CAS state regulations US. California. Candid	108-95-2) date Chemicals Lis 95-2)	-	Low priority			
Phenol (CAS state regulations US. California. Candio (a)) Phenol (CAS 108-	108-95-2) date Chemicals Lis 95-2) (CAS 13463-67-7)	-	Low priority			
Phenol (CAS state regulations US. California. Candid (a)) Phenol (CAS 108- Titanium Dioxide (California Proposition	108-95-2) date Chemicals Lis 95-2) (CAS 13463-67-7) n 65 IG: This product ca	t. Safer Consur	Low priority	tions (Cal. Code Regs,	tit. 22, 69502.3, subd.	
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Country(s) or region	Inventory name	On inventory (yes/no)*
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	ents of this product comply with the inventory requirements administered by the components of the product are not listed or exempt from listing on the inventor	

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

Issue date	05-28-2019
Revision date	08-01-2023
Version #	07
HMIS® ratings	Health: 3 Flammability: 1 Physical hazard: 0
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	Physical & Chemical Properties: Multiple Properties