# SAFETY DATA SHEET

1. Identification			
Product identifier	DEVCON® Ceramic Repair Putty Resin		
Other means of identification			
SKU#	0146		
Recommended use	Not available.		
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Company name	ITW Performance Polymers		
Address	35 Brownridge Rd		
	Unit 1		
	Halton Hills, ON L7G 0C6		
Contact person	Customer Service		
Telephone number	978-777-1100		
Fax			
E-mail			
Emergency telephone number	800-424-9300		
Supplier	Not available.		
2. Hazard 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.		
Label elements			
Signal word	Warning		
Hazard statement	Causes skin irritation. May cause an allergic s	skin reaction. Causes serious eye irritation.	
Precautionary statement			
Prevention	Wash thoroughly after handling. Contaminated work clothing should 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.	
Other hazards	None known.		
Supplemental information	None.		

## 3. Composition/information on ingredients

## **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Aluminium oxide		1344-28-1	30 - 60
Epoxy Resin:reaction Product Bisphenol A And Epichlorohydri (refer To Epichlorohydrin)		25068-38-6	30 - 60
Xylene	XYLENE	1330-20-7	1 - 5
ETHYLBENZENE		100-41-4	0.1 - 1
Other components below report	able levels		5 - 10
All concentrations are in percent b	y weight unless ingredient is a gas. Gas conce	ntrations are in percent by vol	ume.
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if sympton	ns develop or persist.	
Skin contact	Remove contaminated clothing immediately a eczema or other skin disorders: Seek medica contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Ge		
Ingestion	Rinse mouth. Get medical attention if sympto		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include vision. Skin irritation. May cause redness and Rash.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre Symptoms may be delayed.	eat symptomatically. Keep victi	m under observation.
General information	Ensure that medical personnel are aware of a protect themselves. Wash contaminated clot		ake precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carl	oon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as the	nis will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	-	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do		
Specific methods	Use standard firefighting procedures and cor	nsider the hazards of other invo	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release mea	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep pe appropriate protective equipment and clothin not touch damaged containers or spilled mat Ensure adequate ventilation. Local authoritie contained. For personal protection, see secti	g during clean-up. Avoid breat erial unless wearing appropria s should be advised if significa	hing mist/vapours. Do te protective clothing.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this possible. Absorb in vermiculite, dry sand or e recovery, flush area with water.		
	Small Spills: Wipe up with absorbent materia remove residual contamination.		
Environmental precautions	Never return spills to original containers for re Avoid discharge into drains, water courses of	•	e section 13 of the SDS.
7. Handling and storage			
Precautions for safe handling	Avoid breathing mist/vapours. Avoid contact exposure. Provide adequate ventilation. Wea good industrial hygiene practices.		

#### 8. Exposure controls/personal protection

upational exposure limits US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	Form
ALUMINUM OXIDE (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
ALUMINUM OXIDE (CAS 1344-28-1)	TWA	10 mg/m3	
ETHYLBENZENE (CAS 100-41-4)	STEL	543 mg/m3	
		125 ppm	
	TWA	434 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	STEL	651 mg/m3	
		150 ppm	
	TWA	434 mg/m3	
		100 ppm	

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

#### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
ALUMINUM OXIDE (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

## Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	lype	Value		
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm		
Xylene (CAS 1330-20-7)	STEL	150 ppm		
	TWA	100 ppm		
Canada. Quebec OELs. (Ministry	of Labor - Regulation respect	ing occupational health and s	safety)	
Components	Туре	Value	Form	
ALUMINUM OXIDE (CAS 1344-28-1)	TWA	10 mg/m3	Total dust.	

## Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Туре	Value Form
ETHYLBENZENE (CAS 100-41-4)	STEL	543 mg/m3
		125 ppm
	TWA	434 mg/m3
		100 ppm
Xylene (CAS 1330-20-7)	STEL	651 mg/m3
		150 ppm
	TWA	434 mg/m3
		100 ppm

#### Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) Components Value

Components	туре	value	
ALUMINUM OXIDE (CAS 1344-28-1)	15 minute	20 mg/m3	
	8 hour	10 mg/m3	
ETHYLBENZENE (CAS 100-41-4)	15 minute	125 ppm	
	8 hour	100 ppm	
Xylene (CAS 1330-20-7)	15 minute	150 ppm	
	8 hour	100 ppm	

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
ETHYLBENZENE (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

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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.
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#### Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles). Face shield is recommended.		
Skin protection Hand protection	Wear appropriate chemical resistant gloves.		
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection Thermal hazards	In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	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	Viscous. Liquid.
Physical state	Liquid.
Form	Viscous. Liquid.
Colour	Amber.

Odour	Slight.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	320 °C (608 °F) estimated
range	
Flash point	> 121.1 °C (> 250.0 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.14 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidising properties	Not oxidising.
Percent volatile	2.5 % estimated
Specific gravity	1.14 estimated
VOC	33 g/l
10 Stability and reactivity	1

## 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	Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidising agents. Halogens.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure		
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	t Causes serious eye irritation.	
Ingestion	Knowledge about health hazard is incomplete.	

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.

## Information on toxicological effects

Acute toxicity	Not known.			
Components	Species	Test Results		
ETHYLBENZENE (CAS 100-41-4)				
Acute				
Dermal				
LD50	Rabbit	17800 mg/kg		
Oral				
LD50	Rat	3500 mg/kg		
Xylene (CAS 1330-20-7)				
<u>Acute</u>				
Dermal	<b>D</b> 11 1			
LD50	Rabbit	> 43 g/kg		
Inhalation	Det			
LC50	Rat	6350 mg/l, 4 Hours		
<b>Oral</b> LD50	Rat	3523 - 8600 mg/kg		
		3323 - 0000 mg/kg		
Skin corrosion/irritation	Causes skin irritation.			
Serious eye damage/eye irritation	Causes serious eye irritation.			
Respiratory or skin sensitisation	1			
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.			
Skin sensitisation	May cause an allergic skin reaction.			
Germ cell mutagenicity	Due to partial or complete lac	k of data the classification is not possible.		
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure.			
ACGIH Carcinogens				
Aluminium oxide (CAS 13 ETHYLBENZENE (CAS 1		A4 Not classifiable as a human carcinogen. A3 Confirmed animal carcinogen with unknown relevance to humans.		
Xylene (CAS 1330-20-7)		A4 Not classifiable as a human carcinogen.		
Canada - Manitoba OELs: ca				
Aluminium oxide (CAS 13 ETHYLBENZENE (CAS 1 Xylene (CAS 1330-20-7)		Not classifiable as a human carcinogen. Confirmed animal carcinogen with unknown relevance to humans. Not classifiable as a human carcinogen.		
	Evaluation of Carcinogenicity			
ETHYLBENZENE (CAS 1 Xylene (CAS 1330-20-7)	00-41-4)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.		
Reproductive toxicity	Components in this product h laboratory animals.	ave been shown to cause birth defects and reproductive disorders in		
Specific target organ toxicity - single exposure	Due to partial or complete lac	k of data the classification is not possible.		
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.			
Aspiration hazard	Due to partial or complete lac	k of data the classification is not possible.		
Chronic effects	Prolonged inhalation may be	harmful. Prolonged exposure may cause chronic effects.		
10 Easteniastinformation				
12. Ecological information				
Ecotoxicity	The product is not classified a	is environmentally hazardous. However, this does not exclude the nt spills can have a harmful or damaging effect on the environment.		
	The product is not classified a possibility that large or freque	is environmentally hazardous. However, this does not exclude the nt spills can have a harmful or damaging effect on the environment. gradability of any ingredients in the mixture.		

Partition coefficient n-c ETHYLBENZENE Xylene	octanol / water (log Kow) 3.15 3.12 - 3.2	
Mobility in soil	No data available.	
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.	
13. Disposal consider	ations	

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 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

## TDG

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

#### **Canadian regulations**

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

## Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

#### Not listed.

**Greenhouse Gases** 

Not listed.

#### Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

ETHYLBENZENE (CAS 100-41-4)

Xylene (CAS 1330-20-7)

#### **Precursor Control Regulations**

Not regulated.

#### International regulations

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

Kyoto Protocol

Not applicable.

**Montreal Protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

#### International Inventories

Australian Inventory of Chemical Substances (AICS)	Yes
	res
Domestic Substances List (DSL)	Yes
Non-Domestic Substances List (NDSL)	No
Inventory of Existing Chemical Substances in China (IECSC)	Yes
European Inventory of Existing Commercial Chemical Substances (EINECS)	No
European List of Notified Chemical Substances (ELINCS)	No
Inventory of Existing and New Chemical Substances (ENCS)	No
Existing Chemicals List (ECL)	Yes
New Zealand Inventory	Yes
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan Chemical Substance Inventory (TCSI)	Yes
Toxic Substances Control Act (TSCA) Inventory	Yes
	Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances (PICCS) Taiwan Chemical Substance Inventory (TCSI)

\*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	
Issue date	28-May-2019
Revision date	29-April-2020
Version No.	02
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	Composition/information on ingredients: Component information Accidental release measures: Methods and materials for containment and cleaning up Stability and reactivity: Conditions to avoid Toxicological information: Aspiration hazard Toxicological information: Corrosivity Toxicological information: Mutagenicity Toxicological information: Respiratory sensitisation Toxicological information: Ingestion Toxicological information: Inhalation Toxicological information: Skin contact Toxicological information: Skin contact Toxicological information: Specific target organ toxicity - repeated exposure Toxicological information: Specific target organ toxicity - single exposure Transport information: General information

# 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/Supplier	Distributor information	
Company name	ITW Performance Polymers	
Address	35 Brownridge Rd	
	Unit 1	
	Halton Hills, ON L7G 0C6	
Contact person	Customer Service	
Telephone number	978-777-1100	
Fax		
E-mail		
Emergency telephone number	800-424-9300	
Supplier	Not available.	
2. Hazard 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
	Germ cell mutagenicity	Category 2
	Specific target organ toxicity following single exposure	Category 1
	Specific target organ toxicity following repeated exposure	Category 2
Environmental hazards	Not classified.	
Label elements		
	$ \land \land \land $	
Signal word	Danger	
Hazard statement	-	skin. Causes skin irritation. May cause an allergic
	skin reaction. Causes serious eye damage. Suspected of causing genetic defects. Causes damage to organs. May cause 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 and understood. Do not breathe mist/vapours. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.	

Response	IF SWALLOWED: Call a POISON CENTRE/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 CENTRE/doctor. 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.
Other hazards	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 - 70
Phenol		108-95-2	10 - 30
TRIETHYLENETETRAMINE	ТЕТА	112-24-3	10 - 30
Titanium dioxide	Titanium dioxide	13463-67-7	1 - 5
Benzyl alcohol		100-51-6	0.5 - 1.5
Other components below reportable levels			10 - 30

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

A First and measures	
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. 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.
General fire hazards	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

6. Accidental release mea	50165
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/vapours. 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	Use water spray to reduce vapours or divert vapour cloud drift.
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/vapours. 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).
0 Evenesiums somtwals/mark	and exetation

### 8. Exposure controls/personal protection

cupational exposure limits US. ACGIH Threshold Limit Value	25		
Components	Туре	Value	
PHENOL (CAS 108-95-2)	TWA	5 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Canada. Alberta OELs (Occupatio	onal Health & Safety Code, Sc	hedule 1, Table 2)	
Components	Туре	Value	
PHENOL (CAS 108-95-2)	TWA	19 mg/m3	
		5 ppm	
Titanium dioxide (CAS	TWA	10 mg/m3	

13463-67-7)

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
PHENOL (CAS 108-95-2)	TWA	5 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety	And Health Act)	
Components	Туре	Value	

	- )		
PHENOL (CAS 108-95-2)	TWA	5 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Components	-	re to Biologi Type			alue	
PHENOL (CAS 108-95-2)		TWA		5	ppm	
Titanium dioxide (CAS 13463-67-7)		TWA		1(	) mg/m3	
TRIETHYLENETETRAMIN E (CAS 112-24-3)		TWA		3	mg/m3	
				0.	5 ppm	
Canada. Quebec OELs. (Mir Components	-	Regulation Type	respecting	-	health and sa alue	ifety) Form
PHENOL (CAS 108-95-2)		TWA		19	9 mg/m3	
				5	ppm	
Titanium dioxide (CAS 13463-67-7)		TWA		10	) mg/m3	Total dust.
Canada. Saskatchewan OEl Components		al Health and Type	d Safety Re	-	96, Table 21) alue	
PHENOL (CAS 108-95-2)		15 minute		7.	5 ppm	
		8 hour		5	ppm	
Titanium dioxide (CAS 13463-67-7)		15 minute		20	) mg/m3	
,		8 hour		1(	) mg/m3	
PHENOL (CAS 108-95-2) 2				<u> </u>		
- ( )	50 mg/g		ol with lysis	Creatinine in urine	*	
* - For sampling details, pleas		hydro			l *	
		hydro			*	
* - For sampling details, pleas posure guidelines Canada - Alberta OELs: Ski	se see the source	hydro	lysis	urine		
* - For sampling details, pleas	se see the source	hydrol e document.	lysis			
<ul> <li>* - For sampling details, pleas</li> <li>bosure guidelines</li> <li>Canada - Alberta OELs: Ski</li> <li>Phenol (CAS 108-95-2)</li> <li>Canada - British Columbia ( Phenol (CAS 108-95-2)</li> </ul>	se see the source n designation DELs: Skin desi	hydrol e document. ignation	lysis Can be	urine	ugh the skin.	
<ul> <li>* - For sampling details, pleas</li> <li>cosure guidelines</li> <li>Canada - Alberta OELs: Skin Phenol (CAS 108-95-2)</li> <li>Canada - British Columbia ( Phenol (CAS 108-95-2)</li> <li>Canada - Manitoba OELs: S Phenol (CAS 108-95-2)</li> </ul>	se see the source n designation DELs: Skin desi kin designation	hydrol e document. ignation	lysis Can be Can be	urine e absorbed thro	ugh the skin. ugh the skin.	
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Thermal hazards

General hygiene considerations Wear appropriate thermal protective 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

er i nyelear ana enemiear	
Appearance	Paste.
Physical state	Liquid.
Form	Paste.
Colour	White.
Odour	Mild. Phenolic.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	12 °C (53.6 °F) estimated
Initial boiling point and boiling range	181.75 °C (359.15 °F) estimated
Flash point	> 93.3 °C (> 199.9 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	3 % estimated
Flammability limit - upper (%)	10 % estimated
Explosive limit - lower ( %)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	0.27 hPa estimated
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	337.78 °C (640 °F) 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
Oxidising properties	Not oxidising.
Specific gravity	1.2 estimated
VOC	0 g/l
10. Stability and reactivity	

#### 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	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidising agents. Aluminium. Peroxides. Phenols.

11. Toxicological information

Information on likely routes of e	exposure
Inhalation	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

Acute toxicity

Harmful in contact with skin. Harmful if swallowed.

Addie toxicity		
Components	Species	Test Results
Benzyl alcohol (CAS 100-51-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	2000 mg/kg
Inhalation		
LC50	Rat	1000 mg/l, 8 Hours
RIETHYLENETETRAMINE (CAS	S 112-24-3)	
<u>Acute</u>		
Dermal		
Liquid	_	
LD50	Rat	1465 mg/kg
Oral		
Liquid		
LD50	Rat	1716 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye rritation	Causes serious eye damage	Э.
Respiratory or skin sensitisation	n	
Canada - Alberta OELs: Irrit	ant	
Titanium dioxide (CAS 13	3463-67-7)	Irritant
<b>Respiratory sensitisation</b>	Due to partial or complete la	ack of data the classification is not possible.
Skin sensitisation	May cause an allergic skin r	eaction.
Germ cell mutagenicity	Suspected of causing genet	ic defects.
Carcinogenicity	Due to partial or complete la	ack of data the classification is not possible.
ACGIH Carcinogens		
Phenol (CAS 108-95-2)		A4 Not classifiable as a human carcinogen.
Titanium dioxide (CAS 13		A4 Not classifiable as a human carcinogen.
Canada - Manitoba OELs: ca Phenol (CAS 108-95-2)	arcinogenicity	Not classifiable as a human carcinogen.
Titanium dioxide (CAS 108-95-2)	3463-67-7)	Not classifiable as a human carcinogen.
	Evaluation of Carcinogenicit	
Phenol (CAS 108-95-2) Titanium dioxide (CAS 13	3463-67-7)	3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans.
Reproductive toxicity	Due to partial or complete la	ack of data the classification is not possible.
Specific target organ toxicity - single exposure	Causes damage to organs.	
Specific target organ toxicity - repeated exposure	May cause damage to organ	ns through prolonged or repeated exposure.

Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Chronic effects	Prolonged inhalation may be harmful. May cause 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	nol / 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 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

### 14. Transport information

#### TDG

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

disposal.

### 15. Regulatory information

**Canadian regulations** 

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

### **Controlled Drugs and Substances Act**

Not regulated.

ostances Act

Export Control List (CEPA 1999, Schedule 3) Not listed.

#### **Greenhouse Gases**

Not listed.

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Phenol (CAS 108-95-2)

#### **Precursor Control Regulations**

Not regulated.

#### International regulations

**Stockholm Convention** 

#### Not applicable.

**Rotterdam Convention** 

Not applicable.

Kyoto Protocol		
Not applicable. Montreal Protocol		
Not applicable. Basel Convention		
Not applicable.		
ernational Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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	
Issue date	28-May-2019
Revision date	29-April-2020
Version No.	02
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	Composition/information on ingredients: Component information Stability and reactivity: Conditions to avoid Toxicological information: Aspiration hazard Toxicological information: Carcinogenicity Toxicological information: Mutagenicity Toxicological information: Reproductivity Toxicological information: Respiratory sensitisation Toxicological information: Skin contact Toxicological information: Specific target organ toxicity - repeated exposure Toxicological information: Specific target organ toxicity - single exposure