SAFETY DATA SHEET

1. Identification

1. Identification			
Product identifier	DEVCON® Wear Guard™	[•] Ultra Resin	
Other means of identification			
SKU#	5059		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	r/Distributor information		
Manufacturer			
Company name	ITW Performance Polymer	ΓS	
Address	30 Endicott Street		
	Danvers, MA 01923 United States		
Telephone	Customer Service	978-777-1100	
Website	www.itwperformancepolym		
E-mail	Not available.		
Contact person	EHS Department		
Emergency phone number	Chemtrec	800-424-9300	
	International	703-527-3887	
2. Hazard(s) identification	n		
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation		Category 2
	Serious eye damage/eye i	rritation	Category 2A
	Sensitization, skin		Category 1
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elemente			
Label elements			
Signal word	Warning		
Hazard statement	8	cause an allergic	skin reaction. Causes serious eye irritation.
Precautionary statement		sales an anorgio	
Prevention	Wash thoroughly after han	dling, Contaminate	ed work clothing must not be allowed out of the
			on. Wear protective gloves.
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.		
			to do. Continue rinsing. If skin irritation or rash
	off contaminated clothing a		ritation persists: Get medical advice/attention. Take reuse.
Storage	Store away from incompatible materials.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise	None known.		
classified (HNOC)			
Supplemental information	None.		

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Epoxy Resin:reaction Product Bisphenol A And Epichlorohydri (refer To Epichlorohydrin)		25068-38-6	60 - 80
Aluminium Oxide		1344-28-1	20 - 40
Titanium Dioxide	TITANIUM DIOXIDE	13463-67-7	0.1 - 1
Other components below report	able levels		2.5 - 10
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	s 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 fo present and easy to do. Continue rinsing. Get		
Ingestion	Rinse mouth. Get medical attention if sympton	ms 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. Dermatil Rash.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treasymptoms may be delayed.	at symptomatically. Keep vict	m under observation.
General information	Ensure that medical personnel are aware of the protect themselves. Wash contaminated clother		ake precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	on dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	is will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wo	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do s	so without risk.	
Specific methods	Use standard firefighting procedures and con-	sider the hazards of other inv	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 per appropriate protective equipment and clothing not touch damaged containers or spilled mate Ensure adequate ventilation. Local authorities contained. For personal protection, see section	g during clean-up. Avoid breat erial unless wearing appropria s should be advised if significa	hing mist/vapors. Do te protective clothing.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is possible. Absorb in vermiculite, dry sand or ea recovery, flush area with water.		
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, fleece). Clean su	face thoroughly to
Environmental precautions	Never return spills to original containers for re Avoid discharge into drains, water courses or	•	e section 13 of the SDS.
7. Handling and storage			
Precautions for safe handling	Avoid breathing mist/vapors. Avoid contact wi exposure. Provide adequate ventilation. Wear good industrial hygiene practices.	r appropriate personal protect	ive equipment. Observe
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away f SDS).	rom incompatible materials (s	ee Section 10 of the

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	s for Air Contaminants (29 CFR 1910.1000) Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 C	-		_
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Titanium Dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
13-103-07-7)		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Lim			_
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
logical limit values	No biological exposure limits noted for the	ingredient(s).	
propriate engineering trols	Good general ventilation should be used. A applicable, use process enclosures, local e maintain airborne levels below recommenc established, maintain airborne levels to an shower.	exhaust ventilation, or ot ded exposure limits. If ex	her engineering controls to posure limits have not been
ividual protection measure	s, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or g	goggles). Face shield is i	recommended.
Skin protection			
Hand protection	Wear appropriate chemical resistant glove	S.	
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
neral hygiene siderations	Always observe good personal hygiene me and before eating, drinking, and/or smoking equipment to remove contaminants. Conta workplace.	g. Routinely wash work	clothing and protective
Physical and chemica	Il properties		
bearance	Viscous. Liquid.		

Appearance	Viscous. Liquid.
Physical state	Liquid.
Form	Viscous. Liquid.
Color	Clear.
Odor	Slight.

Ode		
Metling point/freezing point Not available. Initial boiling point and boiling 608 °F (320 °C) estimated Flam 265.0 °F (129.4 °C) estimated Evaporation rate Not available. Flammability (solid, gas) Not available. Flammability (solid, gas) Not available. Vite Flammability limit - lower (%) Not available. Flammability limit - upper Not available. (%) Not available. Flammability limit - upper Not available. (%) Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Relative density Not available. Solubility(water) Not available. Not available. Not available. Vapor density Not available. Solubility(water) Not available. Vato-ignition temperature Not available. Viscosity Not available. Decomposition temperature Not available. Viscosity Not available. Decomposition temperature Not available. Use youth temperature Not available. Density 1.19 g/cm3 estimated Oxidzing properties Not exolosive.	Odor threshold	Not available.
Initial boiling point and boiling range 608 °F (320 °C) estimated Flash point 265.0 °F (129.4 °C) estimated Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Flammability limit - lower (%) Flammability limit - lower (%) Not available. Flammability limit - upper (%) Not available. Flammability limit - upper (%) Not available. Explosive limit - upper (%) Not available. Vapor density Not available. Vapor density Not available. Solubility(ies) Solubility (water) Solubility (water) Not available. Auto-lignition temperature Not available. Viscosity Not available. Other information Desity Density Not available. Viscosity Not available. Other information Not available. Flammability class Combustible IIIB estimated Oxidizing properties Not explosive. Flammability class Combustible IIIB estimated	рН	Not available.
range 25.0 °F (129.4 °C) estimated Flash point 25.0 °F (129.4 °C) estimated Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Image: State	Melting point/freezing point	Not available.
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Vapor densityNot available.Relative densityNot available.Solubility(ies)Not available.Solubility(water)Not available.Partition coefficientNot available.(n-octanol/water)Not available.Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Other informationI.19 g/cm3 estimatedExplosive propertiesNot explosive.Flammability classCombustible IIIB estimatedOxidizing propertiesNot oxidizing.Specific gravity1.19 estimated	Explosive limit - upper (%)	Not available.
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Decomposition temperatureNot available.ViscosityNot available.Other information1.19 g/cm3 estimatedDensity1.19 g/cm3 estimatedExplosive propertiesNot explosive.Flammability classCombustible IIIB estimatedOxidizing propertiesNot oxidizing.Specific gravity1.19 estimated		Not available.
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Flammability classCombustible IIIB estimatedOxidizing propertiesNot oxidizing.Specific gravity1.19 estimated	Density	1.19 g/cm3 estimated
Oxidizing propertiesNot oxidizing.Specific gravity1.19 estimated	Explosive properties	Not explosive.
Specific gravity 1.19 estimated	Flammability class	Combustible IIIB estimated
	Oxidizing properties	Not oxidizing.
VOC 100 % Solids	Specific gravity	1.19 estimated
	VOC	100 % Solids
	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 oxidizing agents.
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	Causes serious eye irritation.			
Ingestion	Knowledge about health hazard is incomplete.			
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. Dermatitis. Rash.			
the second s				

Information on toxicological effects

14. Transport information	
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.
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).
	disposal company.
Local disposal regulations Hazardous waste code	Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste
•	contents/container in accordance with local/regional/national/international regulations.
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of
13. Disposal consideration	
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.
Mobility in soil	No data available.
Bioaccumulative potential	
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
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.
12. Ecological information	
Chronic effects	Prolonged inhalation may be harmful.
Aspiration hazard	Due to partial or complete lack 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.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Not listed.	
	gram (NTP) Report on Carcinogens
Not listed.	· · ·
	Substances (29 CFR 1910.1001-1053)
Titanium Dioxide (CAS 13	Evaluation of Carcinogenicity (463-67-7) 2B Possibly carcinogenic to humans.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Skin sensitization	May cause an allergic skin reaction.
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.
Respiratory or skin sensitization	
irritation	
Serious eye damage/eye	Causes serious eye irritation.
Acute toxicity Skin corrosion/irritation	Causes skin irritation.
Acute toxicity	Not known.

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

15. Regulatory information				
US federal regulations	This product is a "H Standard, 29 CFR 1		efined by the OSHA Hazard	Communication
US EPCRA (SARA Title		cic Chemical: De minimi	s concentration	
Aluminium Oxide (0	CAS 1344-28-1)	% 1.0		
US EPCRA (SARA Title Aluminium Oxide (C	,	kic Chemical: Listed sub Listed.	stance	
Toxic Substances Control	,			
TSCA Section 12(b) Ex	port Notification (40	CFR 707, Subpt. D)		
Not regulated.				
CERCLA Hazardous Subst	ance List (40 CFR 302	2.4)		
Not listed. SARA 304 Emergency relea	ase notification			
Not regulated.				
OSHA Specifically Regulat Not listed.	ed Substances (29 Cl	FR 1910.1001-1053)		
Superfund Amendments and R SARA 302 Extremely haza		1986 (SARA)		
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Skin corrosion or irr Serious eye damag Respiratory or skin	e or eye irritation		
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Aluminium Oxide		1344-28-1	20 - 40	
Other federal regulations				
Clean Air Act (CAA) Sectio	n 112 Hazardous Air	Pollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Sectio	n 112(r) Accidental R	elease Prevention (40 C	FR 68.130)	
Not regulated.	N			
Safe Drinking Water Act (SDWA)	Not regulated.			
JS state regulations				
			ng Titanium Dioxide, which n go to www.P65Warnings	
California Proposition	65 - CRT: Listed date	/Carcinogenic substanc	e	
Carbon Black (CAS		Listed: Febru	ary 21, 2003	
Quartz (CAS 14808	,	Listed: Octob		
Titanium Dioxide (C US. California. Candid subd. (a))		Listed: Septe afer Consumer Products	Begulations (Cal. Code I	Regs, tit. 22, 69502.3,
Titanium Dioxide (C	AS 13463-67-7)			
nternational Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	-	of Chemical Substances	(AICS)	No
Canada	Domestic Substanc	es List (DSL)		No
Canada	Non-Domestic Subs	stances List (NDSL)		Yes
China	Inventory of Existing	g Chemical Substances in	ı China (IECSC)	No
Europe	European Inventory Substances (EINEC	of Existing Commercial (CS)	Chemical	No

Country(s) or region	Inventory name	On inventory (yes/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)	No
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

Issue date	05-29-2019
Revision date	04-28-2020
Version #	02
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 2 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.

SAFETY DATA SHEET

1. Identification

1. Identification			
Product identifier	DEVCON® Wear Guard™ Ultra Hardener		
Other means of identification			
SKU#	5337		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	r/Distributor information		
Manufacturer			
Company name	ITW Performance Polymer	ſS	
Address	30 Endicott Street Danvers, MA 01923		
	United States		
Telephone	Customer Service	978-777-1100	
Website	www.itwperformancepolym	iers.com	
E-mail	Not available.		
Contact person Emergency phone number	EHS Department Chemtrec	800-424-9300	
Emergency phone number	International	703-527-3887	
2. Hazard(s) identification	n		
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
iitailii iiazai uə	Acute toxicity, inhalation		Category 4
	Skin corrosion/irritation		Category 4 Category 1
	Serious eye damage/eye i	rritation	Category 1
	Sensitization, skin	mation	Category 1A
	Reproductive toxicity		Category 2
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
	Not oldobillou.		
Label elements	A A	•	
		\mathbf{V}	
Signal word	Danger	•	
Hazard statement	Harmful if swallowed. Caus	ses severe skin bu	rns and eye damage. May cause an allergic skin
	reaction. Causes serious e	eye damage. Harmi	ful if inhaled. Suspected of damaging fertility or the
	unborn child.		
Precautionary statement Prevention	Obtain special instructions	before use Do po	t handle until all safety precautions have been read
FIEVEILIUII			Wash thoroughly after handling. Do not eat, drink or
	smoke when using this pro	duct. Use only out	doors or in a well-ventilated area. Contaminated
	work clothing must not be clothing/eye protection/fac		workplace. Wear protective gloves/protective
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immedia		
ncoponoc	contaminated clothing. Rin	se skin with water/	shower. If inhaled: Remove person to fresh air and
			nse cautiously with water for several minutes.
			to do. Continue rinsing. Immediately call a poison Get medical advice/attention. Wash contaminated
	clothing before reuse		

Storage

clothing before reuse.

Store locked up.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminium Oxide		1344-28-1	20 - 40
Benzene-1,3-dimethaneamine		1477-55-0	10 - 20
TRIMETHYLHEXAMETHYLENEI MINE	DIA	25620-58-0	10 - 20
nonyl phenol		84852-15-3	1 - 2.5
Other components below reportable levels			20 - 40

4. Thist-alu measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.
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.
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.
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	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	

Alcohol resistant foam. Powder. Carbon dioxide (CO2). Suitable extinguishing media Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters **Fire fighting** Move containers from fire area if you can do so without risk. equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods 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 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.
Environmental precautions	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.
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 in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store in a well-ventilated place. 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	
Aluminium Oxide (CAS 1344-28-1)	PEL	5 mg/n	n3 Respirable	fraction.
		15 mg/	/m3 Total dust.	
US. OSHA Table Z-3 (29 CFR 191			_	
Components	Туре	Value	Form	
Aluminium Oxide (CAS 1344-28-1)	TWA	5 mg/n	n3 Respirable	fraction.
		15 mg/	/m3 Total dust.	
		50 mp	pcf Total dust.	
		15 mp	pcf Respirable	fraction.
US. ACGIH Threshold Limit Value	es			
Components	Туре	Value	Form	
Aluminium Oxide (CAS 1344-28-1)	TWA	1 mg/n	n3 Respirable	fraction.
Benzene-1,3-dimethaneami ne (CAS 1477-55-0)	Ceiling	0.018	ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards			
Components	Туре	Value		
Benzene-1,3-dimethaneami ne (CAS 1477-55-0)	Ceiling	0.1 mg	ı/m3	
logical limit values No	biological exposure lim	s noted for the ingredient(s).		
osure guidelines Occ	cupational Exposure Lir	its are not relevant to the curre	nt physical form of the pr	oduct.
US - California OELs: Skin desig	nation			
Benzene-1,3-dimethaneamine US - Tennessee OELs: Skin desi		Can be absorbed through t	he skin.	
Benzene-1,3-dimethaneamine US ACGIH Threshold Limit Value		Can be absorbed through t	he skin.	
Benzene-1,3-dimethaneamine US NIOSH Pocket Guide to Chen		Can be absorbed through t signation	he skin.	
Benzene-1,3-dimethaneamine	(CAS 1477-55-0)	Can be absorbed through t	he 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	Chemical respirator with organic vapor cartridge and full facepiece.
Skin protection Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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. Ammoniacal.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	525.2 °F (274 °C) estimated
Flash point	204.8 °F (96.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.11 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	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.00 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.

Specific gravity	1 estimated
VOC	100 % Solids

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	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Alkaline metals. Peroxides. Phenols.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled.	
Skin contact	Causes severe skin burns. May cause an allergic skin reaction.	
Eye contact	Causes serious eye damage.	
Ingestion	Causes digestive tract burns. Harmful if swallowed.	
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

toxicity	Harmful if inhaled. Harmful if swallowed.
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Acute toxicity	Harmful if inhaled. Harmful if swallowed.		
Components	Species	Test Results	
nonyl phenol (CAS 84852-15-3)			
Acute			
Dermal			
LD50	Rabbit	2140 mg/kg	
Oral			
LD50	Rat	1600 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	1		
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.		
Skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.		
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed.			
	d Substances (29 CFR 1910.1001-1053)		
Not listed.	ogram (NTP) Report on Carcinogens		
Not listed.			
Reproductive toxicity	Suspected of damaging fertility or the unborn child.		
Specific target organ toxicity - single exposure	Due to partial or complete lack 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 lack of data the classifica	tion is not possible.	

12. Ecological information	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)	
nonyl phenol	5.71	
Mobility in soil	No data available.	
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.	
13. Disposal consideratio	ns	
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	Dispose of in accordance with local regulations. Empty containers or liners may retain some	

products	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. (Benzene-1,3-dimethaneamine), Limited Quantity
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	1
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B2, IB2, T11, TP1, TP27
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN2735
UN proper shipping name	Amines, liquid, corrosive, n.o.s. (Benzene-1,3-dimethaneamine)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	8L
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN2735
UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Benzene-1,3-dimethaneamine), Limited Quantity

Transport hazard class(es)		
Class	8	
Subsidiary risk	-	
Packing group	II	
Environmental hazards		
Marine pollutant	No.	
EmS	F-A, S-B	
Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Read safety instructions, SD Not established.	S and emergency procedures before handling.
DOT; IMDG		
15. Regulatory information		
15. Regulatory information		Chemical" as defined by the OSHA Hazard Communication
15. Regulatory information US federal regulations	This product is a "Hazardous Standard, 29 CFR 1910.1200	Chemical" as defined by the OSHA Hazard Communication D. ical: De minimis concentration
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem IS 1344-28-1)	D. ical: De minimis concentration
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem & 1344-28-1) #852-15-3)	0. ical: De minimis concentration % 1.0 % 1.0
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 US EPCRA (SARA Title I	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) II) Section 313 - Toxic Chem	0. ical: De minimis concentration % 1.0 % 1.0
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) II) Section 313 - Toxic Chem S 1344-28-1)	0. ical: De minimis concentration % 1.0 % 1.0
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 US EPCRA (SARA Title I Aluminium Oxide (CA	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem (S 1344-28-1) 1852-15-3) II) Section 313 - Toxic Chem (S 1344-28-1) 1852-15-3)	 ical: De minimis concentration % 1.0 % 1.0 ical: Listed substance Listed.
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 Toxic Substances Control A	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) ct (TSCA)	0. ical: De minimis concentration % 1.0 % 1.0 ical: Listed substance Listed. Listed.
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 Toxic Substances Control A4 TSCA Section 12(b) Exp nonyl phenol (CAS 84	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem (S 1344-28-1) 4852-15-3) II) Section 313 - Toxic Chem (S 1344-28-1) 4852-15-3) ct (TSCA) ort Notification (40 CFR 707, 4852-15-3)	 ical: De minimis concentration % 1.0 % 1.0 ical: Listed substance Listed. Listed. Subpt. D) 1.0 % One-Time Export Notification only.
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 Toxic Substances Control A4 TSCA Section 12(b) Exp nonyl phenol (CAS 84	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) ct (TSCA) ort Notification (40 CFR 707, 4852-15-3) Plans, Chemicals of Concern	 ical: De minimis concentration % 1.0 % 1.0 ical: Listed substance Listed. Listed. Subpt. D) 1.0 % One-Time Export Notification only. Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 Toxic Substances Control A4 TSCA Section 12(b) Exp nonyl phenol (CAS 84 TSCA Chemical Action F nonyl phenol (CAS 84 CERCLA Hazardous Substan Not listed.	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem (S 1344-28-1) 4852-15-3) II) Section 313 - Toxic Chem (S 1344-28-1) 4852-15-3) ct (TSCA) ort Notification (40 CFR 707, 4852-15-3) Plans, Chemicals of Concern 4852-15-3) mce List (40 CFR 302.4)	 ical: De minimis concentration % 1.0 % 1.0 ical: Listed substance Listed. Listed. Subpt. D) 1.0 % One-Time Export Notification only.
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 Toxic Substances Control A TSCA Section 12(b) Exp nonyl phenol (CAS 84 TSCA Chemical Action F nonyl phenol (CAS 84 CERCLA Hazardous Substan Not listed. SARA 304 Emergency releas Not regulated.	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) ct (TSCA) ort Notification (40 CFR 707, 4852-15-3) Plans, Chemicals of Concern 4852-15-3) mce List (40 CFR 302.4) e notification	 ical: De minimis concentration % 1.0 % 1.0 ical: Listed substance Listed. Listed. Subpt. D) 1.0 % One-Time Export Notification only. Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 Toxic Substances Control A4 TSCA Section 12(b) Exp nonyl phenol (CAS 84 TSCA Chemical Action F nonyl phenol (CAS 84 CERCLA Hazardous Substan Not listed. SARA 304 Emergency releas Not regulated. OSHA Specifically Regulated	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) ct (TSCA) ort Notification (40 CFR 707, 4852-15-3) Plans, Chemicals of Concern 4852-15-3) mce List (40 CFR 302.4) e notification	 ical: De minimis concentration % 1.0 % 1.0 ical: Listed substance Listed. Listed. Subpt. D) 1.0 % One-Time Export Notification only. Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 Toxic Substances Control A4 TSCA Section 12(b) Exp nonyl phenol (CAS 84 TSCA Chemical Action F nonyl phenol (CAS 84 CERCLA Hazardous Substan Not listed. SARA 304 Emergency releas Not regulated. OSHA Specifically Regulated Not listed.	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) ct (TSCA) ort Notification (40 CFR 707, 4852-15-3) Plans, Chemicals of Concern 4852-15-3) nce List (40 CFR 302.4) se notification d Substances (29 CFR 1910.1	 ical: De minimis concentration % 1.0 % 1.0 ical: Listed substance Listed. Subpt. D) 1.0 % One-Time Export Notification only. Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan
15. Regulatory information US federal regulations US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 US EPCRA (SARA Title I Aluminium Oxide (CA nonyl phenol (CAS 84 Toxic Substances Control A4 TSCA Section 12(b) Exp nonyl phenol (CAS 84 TSCA Chemical Action F nonyl phenol (CAS 84 CERCLA Hazardous Substan Not listed. SARA 304 Emergency releas Not regulated. OSHA Specifically Regulated	This product is a "Hazardous Standard, 29 CFR 1910.1200 II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) II) Section 313 - Toxic Chem S 1344-28-1) 4852-15-3) ct (TSCA) ort Notification (40 CFR 707, 4852-15-3) Plans, Chemicals of Concern 4852-15-3) nce List (40 CFR 302.4) the notification d Substances (29 CFR 1910.7)	 ical: De minimis concentration % 1.0 % 1.0 ical: Listed substance Listed. Subpt. D) 1.0 % One-Time Export Notification only. Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan

SARA 311/312 Hazardous chemical	Yes			
Classified hazard	Acute toxicity (any route of exposure)			
categories	Skin corrosion or i			
	Serious eye dama Respiratory or skir			
	Reproductive toxic			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Aluminium Oxide		1344-28-1	20 - 40	
nonyl phenol		84852-15-3	1 - 2.5	
Other federal regulations				
Clean Air Act (CAA) Section	112 Hazardous Air	r Pollutants (HAPs) List		
Not regulated.				
Clean Air Act (CAA) Section	112(r) Accidental I	Release Prevention (40 Cl	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
California Proposition 65				
	ny chemicals curren	orcement Act of 1986 (Prop tly listed as carcinogens or gov.		
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	•	ry of Chemical Substances	(AICS)	Yes
Canada	Domestic Substan	ces List (DSL)		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, including date of preparation or last revision

Issue date	05-29-2019
Revision date	06-08-2020
Version #	03
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. Transport Information: Material Transportation Information

Revision information

SAFETY DATA SHEET

1. Identification

1. Identification			
Product identifier	DEVCON® Epoxy Primer FC Resin		
Other means of identification			
SKU#	5074		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	r/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	n		
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			
	\wedge		
Signal word	Warning		
Hazard statement	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.		
Precautionary statement			
Prevention	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	%
Epoxy Resin:reaction Product Bisphenol A And Epichlorohydri (refer To Epichlorohydrin)		25068-38-6	60 - 80
Phenol Polymer With Formaldehyde, Glycidyl Ether		28064-14-4	10 - 20
Other components below report	able levels		3 - 7
Designates that a specific chemic	al identity and/or percentage of composition ha	as been withheld as a trade se	ecret.
4. First-aid measures			
nhalation	Move to fresh air. Call a physician if symptom	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	oms occur.	
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.	at symptomatically. Keep vict	im under observation.
General information	Ensure that medical personnel are aware of t protect themselves. Wash contaminated cloth		ake precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Cark	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	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	protective clothing must be wo	rn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do		
Specific methods	Use standard firefighting procedures and con	nsider the hazards of other inv	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep pe appropriate protective equipment and clothing not touch damaged containers or spilled mate Ensure adequate ventilation. Local authorities contained. For personal protection, see section	g during clean-up. Avoid brea erial unless wearing appropria s should be advised if significa	thing mist/vapors. Do the protective clothing.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this i possible. Absorb in vermiculite, dry sand or e recovery, flush area with water.		
	Small Spills: Wipe up with absorbent materia remove residual contamination.	l (e.g. cloth, fleece). Clean su	rface thoroughly to
Environmental precautions	Never return spills to original containers for re Avoid discharge into drains, water courses or		e section 13 of the SDS
7. Handling and storage			
Precautions for safe handling	Avoid breathing mist/vapors. Avoid contact w ventilation. Wear appropriate personal protect practices.		
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away sSDS).	from incompatible materials (s	see Section 10 of the

8. Exposure controls/personal protection

o. Exposure controis/per		
Occupational exposure limits	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
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	Face shield is recommended. Wear safety glasses with side shields (or goggles).	
Skin protection		
Hand protection	Wear appropriate chemical resistant gloves.	
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	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.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	473 °F (245 °C) estimated
Flash point	265.0 °F (129.4 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor 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.

1.16 g/cm3 estimated
Not explosive.
Combustible IIIB estimated
Not oxidizing.
1.16 estimated

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 e	xposure			
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. Dermatitis. Rash.			
Information on toxicological effe	ects			
Acute toxicity	Not known.			
Skin corrosion/irritation	Causes skin irritation.			
Serious eye damage/eye irritation	Causes serious eye irritation.			
Respiratory or skin sensitization	1			
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 B	Evaluation of Carcinogenicity			
Not listed. OSHA Specifically Regulated	d Substances (29 CFR 1910.1001-1053)			
Not listed.				
US. National Toxicology Pro Not listed.	gram (NTP) Report on Carcinogens			
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	1			
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	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

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.

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	
0	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.

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 inven	tory (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 "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

Issue date	05-29-2019
Version #	01
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 2 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.

SAFETY DATA SHEET

1. Identification

1. Identification					
Product identifier	DEVCON® Epoxy Primer FC Hardener				
Other means of identification					
SKU#	5374				
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.itwperformancepolyme				
E-mail	Not available.				
Contact person	EHS Department	000 101			
Emergency phone number	Chemtrec International	800-424-9300 703-527-3887			
		100-021-0001			
2. Hazard(s) identification					
Physical hazards	Not classified.				
Health hazards	Acute toxicity, dermal		Category 4		
	Acute toxicity, inhalation		Category 3		
	Skin corrosion/irritation		Category 2		
	Serious eye damage/eye irr	itation	Category 1		
	Sensitization, skin		Category 1		
	Germ cell mutagenicity		Category 2		
	Specific target organ toxicity, repeated exposure		Category 2		
Environmental hazards	Not classified.				
OSHA defined hazards	Not classified.				
Label elements					
			>		
Signal word	Danger				
Hazard statement	Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. Suspected of causing genetic defects. 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/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.				

Response If on skin: Wash with plenty of water. 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. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations. None known.

65% of the mixture consists of component(s) of unknown acute oral toxicity. 80% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 65% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%		
Formaldehyde, Oligomeric React Products With Phenol And Triethylenetetramine	ion Formaldehyde, oligomeric reaction products with phenol and triethylenetetramine	32610-77-8	60 - 80		
Phenol		108-95-2	20 - 40		
TRIETHYLENETETRAMINE	ТЕТА	112-24-3	10 - 20		
4. First-aid measures					
	Remove victim to fresh air and keep at rest in artificial respiration if needed. Do not use mou Induce artificial respiration with the aid of a po proper respiratory medical device. Call a poise	ith-to-mouth method if victim i cket mask equipped with a or	nhaled the substance. ne-way valve or other		
	Remove contaminated clothing immediately and wash skin with soap and water. Get medica 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.				
	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Get				
Ingestion	Rinse mouth. Get medical advice/attention if y	vou feel unwell.			
symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include s vision. Permanent eye damage including blinc and pain. May cause an allergic skin reaction. chronic effects.	lness could result. Skin irritati	on. May cause redness		
	Provide general supportive measures and trea under observation. Symptoms may be delayed		m warm. Keep victim		
	IF exposed or concerned: Get medical advice, (show the label where possible). Ensure that r involved, and take precautions to protect them attendance. Wash contaminated clothing before	nedical personnel are aware nselves. Show this safety data	of the material(s)		
5. Fire-fighting measures					
Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxid	de (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 pr	otective clothing must be wor	n in case of fire.		
Fire fighting equipment/instructions	Move containers from fire area if you can do s	o without risk.			
Specific methods	se standard firefighting procedures and consider the hazards of other involved materials.				
General fire hazards	No unusual fire or explosion hazards noted.				
C Applicantel veloppo mono					

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 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	Use water spray to reduce vapors or divert vapor cloud drift.				
	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. 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. Use only outdoors or in a well-ventilated area. 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 in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).				
8. Exposure controls/pers					

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		v	alue	
Phenol (CAS 108-95-2)		PEL		1	9 mg/m3	
				5	ppm	
US. ACGIH Threshold Li Components	imit Values	Туре		v	alue	
Phenol (CAS 108-95-2)		TWA		5	ppm	
US. NIOSH: Pocket Guid	le to Chemical Ha	zards				
Components		Туре		V	alue	
Phenol (CAS 108-95-2)		Ceilin	g	6	0 mg/m3	
				1	15.6 ppm	
		TWA		1	9 mg/m3	
				5	ppm	
US. Workplace Environmental Expose Components TRIETHYLENETETRAMIN E (CAS 112-24-3)		Type TWA		v	alue	
TRIETHYLENETETRAMII E (CAS 112-24-3)	N	TWA		6	mg/m3	
	N	TWA			mg/m3 ppm	
E (CAS 112-24-3)	N	TWA			-	
E (CAS 112-24-3)		TWA	Determinant		-	
E (CAS 112-24-3) logical limit values ACGIH Biological Expos	sure Indices	TWA	Determinant Phenol with hydrolysis	1	ppm Sampling Time	
E (CAS 112-24-3) logical limit values ACGIH Biological Expos Components	sure Indices Value 250 mg/g		Phenol with hydrolysis	1 Specimen Creatinine ir	ppm Sampling Time	
E (CAS 112-24-3) logical limit values ACGIH Biological Expos Components Phenol (CAS 108-95-2) * - For sampling details, p	sure Indices Value 250 mg/g		Phenol with hydrolysis	1 Specimen Creatinine ir	ppm Sampling Time	
E (CAS 112-24-3) logical limit values ACGIH Biological Expos Components Phenol (CAS 108-95-2) * - For sampling details, p	sure Indices Value 250 mg/g lease see the sour		Phenol with hydrolysis	1 Specimen Creatinine ir	ppm Sampling Time	
E (CAS 112-24-3) logical limit values ACGIH Biological Expos Components Phenol (CAS 108-95-2) * - For sampling details, p osure guidelines US - California OELs: Sk Phenol (CAS 108-95-	Sure Indices Value 250 mg/g blease see the sour kin designation -2)	ce doci	Phenol with hydrolysis ument. Can b	1 Specimen Creatinine ir	ppm Sampling Time	
E (CAS 112-24-3) logical limit values ACGIH Biological Expos Components Phenol (CAS 108-95-2) * - For sampling details, p osure guidelines US - California OELs: Sk	Sure Indices Value 250 mg/g elease see the sour kin designation -2) os: Skin designatio	ce doci	Phenol with hydrolysis ument. Can b	1 Specimen Creatinine ir urine	ppm Sampling Time	

Material name: DEVCON® Epoxy Primer FC Hardener

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US - Tennessee OELs: Skin	designation				
Phenol (CAS 108-95-2)		Can be absorbed through the skin.			
US ACGIH Threshold Limit Values: Skin designation					
Phenol (CAS 108-95-2)		Can be absorbed through the skin.			
US NIOSH Pocket Guide to (nation				
Phenol (CAS 108-95-2)		Can be absorbed through the skin.			
US WEEL Guides: Skin desi	gnation				
TRIETHYLENETETRAMI	NE (CAS 112-24-3)	Can be absorbed through the skin.			
US. OSHA Table Z-1 Limits f	or Air Contaminants (29 CFR	1910.1000)			
Phenol (CAS 108-95-2)		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 safet shower.				
Individual protection measures, such as personal protective equipment					
Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.				
Skin protection					
Hand protection	Wear appropriate chemical resistant gloves.				
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.				
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.				
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.				
General hygiene considerations	measures, such as washing a smoking. Routinely wash wor	nce requirements. Always observe good personal hygiene fter handling the material and before eating, drinking, and/or k clothing and protective equipment to remove contaminants. nould not be allowed out of the workplace.			

9. Physical and chemical properties

5. I flysical and chemical	
Appearance	Liquid.
Physical state	Liquid.
Form	Viscous. Liquid.
Color	Amber
Odor	Slightly.
Odor threshold	Not available.
рН	10
Melting point/freezing point	53.6 °F (12 °C) estimated
Initial boiling point and boiling range	359.15 °F (181.75 °C) estimated
Flash point	276.1 °F (135.6 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	3 % estimated
Flammability limit - upper (%)	10 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
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	1.09 g/cm3			
Explosive properties	Not explosive.			
Flammability class	Combustible IIIB estimated			
Oxidizing properties	Not oxidizing.			
Specific gravity	1.09			
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.	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 decomposition temperature. Contact with incompatible materials.			
Incompatible materials	Acids. Strong oxidizing agents. Aluminum. Peroxides. Phenols.			
Hazardous decomposition products	No hazardous decomposition products are known	n.		
11. Toxicological informat	tion			
Information on likely routes of e	xposure			
Inhalation	Toxic if inhaled.			
Skin contact	Harmful in contact with skin. Causes skin irritatio	n. May cause an allergic skin reaction.		
Eye contact	Causes serious eye damage.			
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. 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 effe	ects			
0				
Acute toxicity	Toxic if inhaled. Harmful in contact with skin.			

669 mg/kg

Phenol (CAS 108-95-2)

Acute Dermal

LD50 Rat TRIETHYLENETETRAMINE (CAS 112-24-3)

<u>Acute</u> Dormal

Dermal <i>Liquid</i> LD50	Rat	1465 mg/kg
Oral Liquid		
LD50	Rat	1716 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
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	Suspected of causing genetic defects.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
	Evaluation of Carcinogenicity
Phenol (CAS 108-95-2) OSHA Specifically Regulate Not listed.	3 Not classifiable as to carcinogenicity to humans. d Substances (29 CFR 1910.1001-1053)
Not listed.	ogram (NTP) Report on Carcinogens
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	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.
12. Ecological information	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-octan Phenol	nol / water (log Kow) 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 consideratio	ns
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.

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 T	itle III) Section 31	3 - Toxic Che	nical: De minimis cor	ncentration	
Phenol (CAS 108	-		% 1.0		
	,	3 - Toxic Che	nical: Listed substan	се	
Phenol (CAS 108	8-95-2)		Listed.		
Toxic Substances Contr	ol Act (TSCA)				
TSCA Section 12(b) Not regulated.	Export Notification	on (40 CFR 70	7, Subpt. D)		
CERCLA Hazardous Sul	ostance List (40 C	FR 302.4)			
Phenol (CAS 108-95- SARA 304 Emergency re	-2)	-	Listed.		
PHENOL (CAS 108-9	95-2)		1000 LBS		
OSHA Specifically Regu	lated Substances	s (29 CFR 1910	.1001-1053)		
Not listed.					
perfund Amendments and		-	SARA)		
SARA 302 Extremely ha					
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 Hazardou chemical	is Yes				
Classified hazard categories SARA 313 (TRI reporting	Skin corrosic Serious eye Respiratory Germ cell m Specific targ		irritation	xposure)	
Chemical name	3 /	C	AS number	% by wt.	
Phenol		1	08-95-2	20 - 40	
ner federal regulations					
Clean Air Act (CAA) Sec	tion 112 Hazardo	us Air Pollutai	nts (HAPs) List		
Phenol (CAS 108-95 Clean Air Act (CAA) Sec	,	ental Release	Prevention (40 CFR 6	8.130)	
Not regulated.					
Safe Drinking Water Act (SDWA)	Not regulate	d.			
FEMA Priority Subs	tances Respirato	ry Health and	Safety in the Flavor M	anufacturing Workpla	ice
Phenol (CAS 108	8-95-2)		Low priority		
state regulations					
	ing Water and Tox in any chemicals o	currently listed	Act of 1986 (Propositional Act of 1986 (Propositional Action of the Acti		
US. California. Cano subd. (a)) Phenol (CAS 108		List. Safer Co	nsumer Products Rec	gulations (Cal. Code R	egs, tit. 22, 69502.3,
ernational Inventories	,				
Country(s) or region	Inventory na	ame			On inventory (yes/no)*
Australia	-		mical Substances (AIC	S)	Yes
Canada		ubstances List (•		Yes
Canada	Non-Domest	tic Substances	List (NDSL)		No
China	Inventory of	Evicting Chomi			Yes
	involutory of	Existing Onem	cal Substances in Chir	ia (ieusu)	163
Europe	-	ventory of Exis	cal Substances in Chir ting Commercial Chem		No

Country(s) or region	Inventory name	On inventory (yes/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, including date of preparation or last revision

	· · ·
Issue date	05-29-2019
Revision date	06-04-2020
Version #	02
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 2 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.

SAFETY DATA SHEET

1. Identification

Product identifier	DEVCON® Wear Guard	™ Beads	
Other means of identification			
SKU#	5207		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplie	er/Distributor information		
Manufacturer			
Company name	ITW Performance Polym	iers	
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

Not classified.	
Acute toxicity, inhalation	Category 4
Not classified.	
Not classified.	
$\mathbf{\wedge}$	
•	
Warning	
Harmful if inhaled.	
Avoid breathing dust. Use only outdo	ors or in a well-ventilated area.
If inhaled: Remove person to fresh ai center/doctor if you feel unwell.	r and keep comfortable for breathing. Call a poison
Store away from incompatible materia	als.
Dispose of waste and residues in acc	ordance with local authority requirements.
None known.	
consists of component(s) of unknown component(s) of unknown acute haza	onent(s) of unknown acute oral toxicity. 80% of the mixture acute dermal toxicity. 80% of the mixture consists of ards to the aquatic environment. 80% of the mixture consists m hazards to the aquatic environment.
	Acute toxicity, inhalation Not classified. Not classified. Warning Harmful if inhaled. Avoid breathing dust. Use only outdoo If inhaled: Remove person to fresh air center/doctor if you feel unwell. Store away from incompatible materia Dispose of waste and residues in acco None known. 80% of the mixture consists of compor consists of component(s) of unknown component(s) of unknown acute haza

3. Composition/information on ingredients

Mixtures				
Chemical name	Common name and synonyms	CAS number	%	
Aluminium Oxide		1344-28-1	80 - 90	

Chemical name	Common name and synonyms	CAS number	%
Silicon dioxide, aluminum oxide, and magnesium oxide		Mixture	20 - 40
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in artificial respiration if needed. Call a poison of		
Skin contact	Rinse with water. Get medical attention if irrit	ation develops and persists.	
Eye contact	Do not rub eyes. Rinse with water. Get media	cal attention if irritation develop	s and persists.
ngestion	Rinse mouth. Get medical attention if sympto	oms occur.	
Most important symptoms/effects, acute and delayed	Dusts may irritate the respiratory tract, skin a	and eyes.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre under observation. Symptoms may be delaye		n warm. Keep victim
General information	Ensure that medical personnel are aware of protect themselves.	the material(s) involved, and ta	ke precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carl	bon 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	protective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers	S.	
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 meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per appropriate protective equipment and clothin NIOSH/MSHA approved respirator if there is the exposure limits. Ensure adequate ventila spillages cannot be contained. For personal	g during clean-up. Avoid inhala a risk of exposure to dust/fume tion. Local authorities should b	ation of dust. Use a at levels exceeding e advised if significant
Methods and materials for containment and cleaning up	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk		
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.		
	Small Spills: Sweep up or vacuum up spillag	e and collect in suitable contai	ner for disposal.
	Never return spills to original containers for r	e-use. For waste disposal, see	section 13 of the SDS
Environmental precautions	Avoid discharge into drains, water courses o	r onto the ground.	
7. Handling and storage			
Precautions for safe handling	Minimize dust generation and accumulation. Avoid breathing dust. Avoid prolonged exposure. U only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.		
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store in a w materials (see Section 10 of the SDS).	ell-ventilated place. Store away	r from incompatible

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	s for Air Contaminants (29 CFR 1910.1000) Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 C	-		_
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
ological limit values	No biological exposure limits noted for the i	ngredient(s).	
dividual protection measure	established, maintain airborne levels to an a sufficient to maintain concentrations of dust (OEL), suitable respiratory protection must operation which may generate dusts, use a below the recommended exposure limits. s, such as personal protective equipment	t particulates below the be worn. If material is g	Occupational Exposure Lim round, cut, or used in any
Eye/face protection	Chemical respirator with organic vapor cart	ridge, full facepiece, du	st and mist filter.
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves		
Other	Wear appropriate chemical resistant clothin	-	
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.		
Thermal hazards	Wear appropriate thermal protective clothin	ng, when necessary.	
eneral hygiene onsiderations	Always observe good personal hygiene me and before eating, drinking, and/or smoking equipment to remove contaminants.		
. Physical and chemica	Il properties		
opearance	Solid.		
Physical state	Solid.		
Form	Powder.		
Color	White, Dark brown.		
	N 1		

winte, Dark brown.
None.
Not available.
Not available.
3632 °F (2000 °C) estimated
5396 °F (2980 °C) estimated
Not available.
Not available.
Not available.

Upper/lower flammability or explosive limits

Upper/lower flammability or exp	plosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor 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	3.90 g/cm3
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	3.9
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 decomposition temperature. Contact with incompatible materials.
Incompatible materials	Acids. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure				
Inhalation	Harmful if inhaled.			
Skin contact	Dust or powder may irritate the skin.			
Eye contact	Dust may irritate the eyes.			
Ingestion	Expected to be a low ingestion hazard.			
Symptoms related to the physical, chemical and toxicological characteristics	Dusts may irritate the respiratory tract, skin and eyes.			
Information on toxicological effects				
Acute toxicity	Harmful if inhaled.			
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.			
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.			
Respiratory or skin sensitizatior	1			
Respiratory sensitization	Not a respiratory sensitizer.			
Skin sensitization	This product is not expected to cause skin sensitization.			
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						
Not listed.						
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)						
Not listed.	NTD) Devent on Consideration					
•••	ogram (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 consideratio	ns					
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

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

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

Listed.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration % 1.0

Aluminium Oxide (CAS 1344-28-1)

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

Aluminium Oxide (CAS 1344-28-1)

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Ex	oport Notification (40) CFR 707, Subpt. D)		
Not regulated.				
CERCLA Hazardous Subst	ance List (40 CFR 3	02.4)		
Not listed. SARA 304 Emergency rele	ase notification			
Not regulated.				
OSHA Specifically Regulat Not listed.	ed Substances (29 (CFR 1910.1001-1053)		
Superfund Amendments and F	Reauthorization Act of	of 1986 (SARA)		
SARA 302 Extremely haza	rdous substance			
Not listed.				
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	_
Aluminium Oxide		1344-28-1	80 - 90	
Other federal regulations				
Clean Air Act (CAA) Section	on 112 Hazardous Ai	r Pollutants (HAPs) List		
Not regulated. Clean Air Act (CAA) Sectio	on 112(r) Accidental	Release Prevention (40 C	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
US state regulations				
	any chemicals curren	orcement Act of 1986 (Prop tly listed as carcinogens or a.gov.		
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Invento	ry of Chemical Substances	(AICS)	Yes
Canada	Domestic Substar	ices List (DSL)		Yes
Canada	Non-Domestic Sul	ostances List (NDSL)		No
China	Inventory of Existing	ng Chemical Substances ir	n China (IECSC)	Yes
Europe	European Invento Substances (EINE	ry of Existing Commercial (CCS)	Chemical	Yes
Europe	European List of N	Notified Chemical Substanc	es (ELINCS)	No
Japan	Inventory of Existi	ng and New Chemical Sub	stances (ENCS)	Yes
Korea	Existing Chemical	s List (ECL)		Yes
New Zealand	New Zealand Inve	ntory		Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)			Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)			Yes
United States & Puerto Rico		Control Act (TSCA) Invento		Yes
*A "Yes" indicates that all comp	onents of this product co	omply with the inventory requir	ements administered by the g	

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

Issue date	06-04-2020
Version #	01
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0

Disclaimer

Health: 1 Flammability: 1 Instability: 0

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.