SAFETY DATA SHEET



1. Identification

Product identifier	DEVCON® Carbide Put	tty Resin		
Other means of identification				
SKU#	5024N			
Recommended use	Not available.	Not available.		
Recommended restrictions	None known.			
Manufacturer/Importer/Supplie	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.itwperformancepol	ymers.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	e irritation	Category 2A	
	Sensitization, skin		Category 1	
Environmental hazards	Not classified.			
OSHA defined hazards	Not classified.			
Label elements				
	^			
Signal word	Warning			
Hazard statement	Causes skin irritation. M	lay cause an allergic s	skin reaction. Causes serious eye irritation.	
Precautionary statement				
Prevention			oray. Wash thoroughly after handling. Contaminated	
		be allowed out of the v	workplace. Wear eye protection/face protection.	
Desarra	Wear protective gloves.	which for the state of the state		
Response			es: Rinse cautiously with water for several minutes. to do. Continue rinsing. If skin irritation or rash	
	occurs: Get medical adv	vice/attention. If eye ir	ritation persists: Get medical advice/attention. Take	
	off contaminated clothin	g and wash it before	reuse.	
Storage	Store away from incomp	atible materials.		
Disposal	Dispose of contents/con	tainer 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	%
Aluminium Oxide		1344-28-1	20 - 40
Epoxy Resin:reaction Product Bisphenol A And Epichlorohydri (refer To Epichlorohydrin)		25068-38-6	20 - 40
Silicon Carbide (sic)		409-21-2	20 - 40
Other components below report	able levels		1 - 5
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	is 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. Get		
Ingestion	Rinse mouth. Get medical attention if sympto	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. Dermatiti Rash.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	oon 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 b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Fire fighting equipment/instructions	Use water spray to cool unopened containers	5.	
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 clothing or spilled material unless wearing appropriate Local authorities should be advised if significat protection, see section 8 of the SDS.	g during clean-up. Do not touc protective clothing. Ensure a	h damaged containers dequate ventilation.
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 material remove residual contamination.	l (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 dust/fume/gas/mist/vapors/sp Provide adequate ventilation. Wear appropria industrial hygiene practices.	oray. Avoid contact with eyes, ate personal protective equipm	skin, and clothing. hent. Observe good
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				
US. OSHA Table Z-1 Limits Components	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.	
Silicon Carbide (sic) (CAS 409-21-2)	PEL	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
US. OSHA Table Z-3 (29 CF Components	R 1910.1000) Type	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.	
Silicon Carbide (sic) (CAS 409-21-2)	TWA	5 mg/m3	Respirable fraction.	
,		15 mg/m3	Total dust.	
		50 mppcf	Total dust.	
		15 mppcf	Respirable fraction.	
US. ACGIH Threshold Limit Components	Values Type	Value	Form	
Aluminium Oxide (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.	
Silicon Carbide (sic) (CAS 409-21-2)	TWA	0.1 fibers/cm3	Fiber.	
		3 mg/m3	Respirable fraction.	
		10 mg/m3	Inhalable fraction.	
US. NIOSH: Pocket Guide to Components	o Chemical Hazards Type	Value	Form	
Silicon Carbide (sic) (CAS 409-21-2)	TWA	5 mg/m3	Respirable.	
403-21-2)		10 mg/m3	Total	
Biological limit values	No biological exposure limits noted for the ing	gredient(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 Eye/face protection	, such as personal protective equipment Wear safety glasses with side shields (or goo	ggles). Face shield is rec	commended.	
Skin protection Hand protection	Wear appropriate chemical resistant gloves.			
Other	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.			
Respiratory protection	In case of insufficient ventilation, wear suitab	•		
Thermal hazards	Wear appropriate thermal protective clothing			
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.			

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9. Physical and chemical properties

9. Physical and chemical	properties
Appearance	Paste.
Physical state	Solid.
Form	Solid. Paste.
Color	Grey.
Odor	Slight.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	608 °F (320 °C) estimated
Flash point	> 264.9 °F (> 129.4 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
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.
Other information	
Density	1.19 g/cm3 estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	1.19 estimated

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.
Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.
Contact with incompatible materials.
Strong oxidizing agents.
No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure			
Inhalation	Knowledge about health hazard is incomplete.		
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.		
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	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.		
	Evaluation of Carcinogenicity		
	S 409-21-2) 2A Probably carcinogenic to humans. d Substances (29 CFR 1910.1001-1053)		
Not listed.	gram (NTP) Report on Carcinogens		
Not listed.	gram (MTP) hepoir on carcinogens		
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.		
Specific target organ toxicity -	Due to partial or complete lack of data the classification is not possible.		
single exposure			
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 classification is not possible.		
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 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.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory informatio	n			
US federal regulations	This product is a "Ha Standard, 29 CFR 1		lefined by the OSHA Hazard	l Communication
US EPCRA (SARA Title	III) Section 313 - Tox	ic Chemical: De minimi	s concentration	
Aluminium Oxide (C <i>i</i> US EPCRA (SARA Title		% 1.0 ic Chemical: Listed sub	ostance	
Aluminium Oxide (C/	AS 1344-28-1)	Listed.		
Toxic Substances Control A	Act (TSCA)			
TSCA Section 12(b) Exp	oort Notification (40 C	CFR 707, Subpt. D)		
Not regulated.				
CERCLA Hazardous Substa	nce List (40 CFR 302	2.4)		
Not listed.				
SARA 304 Emergency released	se notification			
Not regulated.				
OSHA Specifically Regulate	d Substances (29 CF	R 1910.1001-1053)		
Not listed.				
Superfund Amendments and Re		1986 (SARA)		
SARA 302 Extremely hazard	lous substance			
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Skin corrosion or irri Serious eye damage Respiratory or skin s	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) Section Not regulated.				
Clean Air Act (CAA) Section	112(r) Accidental Re	elease Prevention (40 C	FR 68.130)	
Not regulated. Safe Drinking Water Act	Not regulated.			
(SDWA)				
US state regulations				
California Proposition 65				
California Safe Drinking V is not known to contain a more information go to w	ny chemicals currently	listed as carcinogens or	position 65): This material r reproductive toxins. For	
US. California. Candida subd. (a))	te Chemicals List. Sa	afer Consumer Product	s Regulations (Cal. Code I	Regs, tit. 22, 69502.3,
Silicon Carbide (sic)	(CAS 409-21-2)			
International Inventories	· · ·			
Country(s) or region	Inventory name			On inventory (yes/no)
Australia	•	of Chemical Substances	(AICS)	No
Canada	Domestic Substance		× /	Yes
Canada	Non-Domestic Subs			No
China		Chemical Substances ir	n China (IECSC)	Yes
Europe	European Inventory		· · · ·	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)	No
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	05-04-2020
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	า
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Product identifier	Putty Hardener		
Other means of identification			
SKU#	5438		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	Distributor information		
Manufacturer			
Company name	ITW Performance Polymers	6	
Address	30 Endicott Street		
	Danvers, MA 01923 United States		
Telephone	Customer Service	978-777-1100	
Website	www.itwperformancepolym	ers.com	
E-mail	Not available.		
Contact person	EHS Department		
Emergency phone number	Chemtrec International	800-424-9300 703-527-3887	
		103-527-3667	
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
	Acute toxicity, dermal		Category 4
	Skin corrosion/irritation		Category 2
	Serious eye damage/eye in	ritation	Category 1
	Sensitization, skin		Category 1
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
	\vee \vee		
Signal word	Danger		
Hazard statement	Harmful if swallowed. Harm skin reaction. Causes serio		skin. Causes skin irritation. May cause an allergic
Precautionary statement			
Prevention	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves/protective clothing.		
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.		
Storage	Store away from incompatil	ble materials.	
Disposal	Dispose of contents/contair	ner in accordance	with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Aliphatic Amines		N/A	40 - 60
Benzyl Alcohol		100-51-6	20 - 40
TRIETHYLENETETRAMINE	ТЕТА	112-24-3	20 - 40
Silicon Dioxide	Silica, amorphous, fumed, crystfree	112945-52-5	2.5 - 10
Titanium Dioxide	TITANIUM DIOXIDE	13463-67-7	0.1 - 1
Other components below report	able levels		0.1 - 1
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms	develop or persist.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.		
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lur Get medical advice/attention if you feel unwell.		esn't get into the lungs.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redne and pain. May cause an allergic skin reaction. Dermatitis. Rash.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat under observation. Symptoms may be delayed.	symptomatically. Keep victi	m warm. Keep victim
General information	Ensure that medical personnel are aware of the protect themselves. Show this safety data sheet clothing before reuse.		
5. Fire-fighting measures			
Suitable extinguishing media	Water spray. Alcohol resistant foam. Powder. C	arbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this	will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be f	ormed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full prot	ective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.		
Specific methods	Use standard firefighting procedures and consid	ler the hazards of other invo	lved 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 peopl appropriate protective equipment and clothing d or spilled material unless wearing appropriate per Local authorities should be advised if significant protection, see section 8 of the SDS.	uring clean-up. Do not touc rotective clothing. Ensure ac	h damaged containers dequate ventilation.

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

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. **Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage	
Precautions for safe handling	Do not get this material in contact with eyes. Do not taste or swallow. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	Form
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFI	R 1910.1000)		
Components	Туре	Value	Form
Silicon Dioxide (CAS 112945-52-5)	TWA	0.8 mg/m3	
		20 mppcf	
Titanium Dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	
Silicon Dioxide (CAS 112945-52-5)	TWA	6 mg/m3	
-	tal Exposure Level (WEEL) Guides		
Components	Туре	Value	
Benzyl Alcohol (CAS 100-51-6)	TWA	44.2 mg/m3	
		10 ppm	
TRIETHYLENETETRAMIN E (CAS 112-24-3)	TWA	6 mg/m3	
		1 ppm	
logical limit values	No biological exposure limits noted	for the ingredient(s).	
osure guidelines	Occupational Exposure Limits are n	ot relevant to the current physic	al form of the product.
US WEEL Guides: Skin des	ignation		
TRIETHYLENETETRAM	INE (CAS 112-24-3) Can	be absorbed through the skin.	
propriate engineering trols	Good general ventilation should be applicable, use process enclosures, maintain airborne levels below reco established, maintain airborne levels shower.	local exhaust ventilation, or oth mmended exposure limits. If exp	ner engineering controls to posure limits have not been
vidual protection measures,	such as personal protective equipr	ment	
Eye/face protection	Wear safety glasses with side shield recommended.		d. Face shield is

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	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

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Appearance	Paste.
Physical state	Solid.
Form	Paste.
Color	White
Odor	Ammoniacal.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	4.64 °F (-15.2 °C) estimated
Initial boiling point and boiling range	420.8 °F (216 °C) estimated
Flash point	> 199.9 °F (> 93.3 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	5.73 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	640 °F (337.78 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.00 g/cm3 estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	1 estimated
10. Stability and reactivity	

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardous
reactionsNo dangerous reaction known under conditions of normal use.

Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Peroxides. Phenols.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Th. Toxicological informa			
Information on likely routes of	exposure		
Inhalation	No adverse effects due to inhalation are expected.		
Skin contact	Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.		
Eye contact	Causes serious eye damage.		
Ingestion	Harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.		
Information on toxicological ef	fects		
Acute toxicity	Harmful in contact with skin. Harmful if swallowed.		
Components	Species Test Results		
Benzyl Alcohol (CAS 100-51-6)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	2000 mg/kg	
Inhalation			
LC50	Rat	1000 mg/l, 8 Hours	

Acute toxicity	Harmful in contact with skin. I	farmiul if swallowed.
Components	Species	Test Results
Benzyl Alcohol (CAS 100-51-6)		
Acute		
Dermal		
LD50	Rabbit	2000 mg/kg
Inhalation		
LC50	Rat	1000 mg/l, 8 Hours
Oral		
LD50	Rat	1230 - 3100 mg/kg
Silicon Dioxide (CAS 112945-52-	5)	
Acute		
Oral	_	
LD50	Rat	> 22500 mg/kg
TRIETHYLENETETRAMINE (CA	S 112-24-3)	
Acute		
Dermal		
Liquid LD50	Rat	1465 mallia
	Rat	1465 mg/kg
Oral Liquid		
LD50	Rat	1716 mg/kg
Skin corrosion/irritation	Causes skin irritation.	in to the key
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitizatio	'n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin rea	action.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Silicon Dioxide (CAS 112 Titanium Dioxide (CAS 1		3 Not classifiable as to carcinogenicity to humans.
	ed Substances (29 CFR 1910.1	2B Possibly carcinogenic to humans. 001-1053)
Not listed.		

US. National Toxicology Pro	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.
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	
Partition coefficient n-octan Benzyl Alcohol	ol / water (log Kow) 1.1
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
13. Disposal 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.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

US federal regulations

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

Toxic Substances Control Act (TSCA)

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical **Classified hazard** Acute toxicity (any route of exposure) Skin corrosion or irritation categories Serious eye damage or eye irritation Respiratory or skin sensitization SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act Not regulated. (SDWA) **US state regulations California Proposition 65** WARNING: This product can expose you to Titanium Dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Titanium Dioxide (CAS 13463-67-7) Listed: September 2, 2011 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Titanium Dioxide (CAS 13463-67-7)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	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	06-16-2019
Revision date	01-12-2021
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.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.

