# SAFETY DATA SHEET

# 1. Identification

Product identifier	DEVCON® Ceramic Repai	r Putty Resin		
Other means of identification				
SKU#	0146	0146		
Recommended use	Not available.			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplie	r/Distributor information			
Manufacturer				
Company name	ITW Performance Polymers	ITW Performance Polymers		
Address	30 Endicott Street			
	Danvers, MA 01923			
	United States			
Telephone	Customer Service	978-777-1100		
Website	www.itwperformancepolyme	ers.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	Sensitization, skin		Category 1	
Environmental hazards	Not classified.			
OSHA defined hazards	Not classified.			

Label elements



Signal word	Warning
Hazard statement	May cause an allergic skin reaction.
Precautionary statement	
Prevention	Avoid breathing mist/vapors. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: 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	%
Aluminium Oxide		1344-28-1	40 - 60
Epoxy Resin: Reaction product of bisphenol A and Epichlorohydrin (refer to epichlorohydrin)		25068-38-6	30 - 60

Chemical name	Common name and synonyms	CAS number	%
Xylene	XYLENE	1330-20-7	1 - 2.5
Ethyl Benzene		100-41-4	0.1 - 1
Other components below report	reportable levels 5 - 10		
4. First-aid measures			
nhalation	Move to fresh air. Call a physician if symptom	s develop or persist.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.		
Eye contact	Rinse with water. Get medical attention if irrita	ation develops and persists.	
ngestion	Rinse mouth. Get medical attention if sympton	ms occur.	
Most important symptoms/effects, acute and delayed	May cause an allergic skin reaction. Dermatitis. Rash.		
ndication of immediate nedical attention and special reatment 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 protect themselves. Wash contaminated clother		ke precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	on dioxide (CO2).	
Jnsuitable extinguishing nedia	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from he chemical	During fire, gases hazardous to health may be	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	Move containers from fire area if you can do so without risk.		
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.		
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	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	during clean-up. Avoid breatl rial unless wearing appropriat s should be advised if significa	ning mist/vapors. Do e protective clothing.
Methods and materials for	Prevent entry into waterways, sewer, baseme	ents or confined areas.	
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 surf	ace thoroughly to
	Never return spills to original containers for re	-use. For waste disposal, see	section 13 of the SD
Environmental precautions	Avoid discharge into drains, water courses or	onto the ground.	
7. Handling and storage			
Precautions for safe handling	Avoid breathing mist/vapors. Avoid contact wi exposure. Provide adequate ventilation. Wear good industrial hygiene practices.		
Conditions for safe storage, ncluding any incompatibilities	Store in tightly closed container. Store away f SDS).	rom incompatible materials (se	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.

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#### **Biological limit values**

### ACGIH Biological Exposure Indices

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

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

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.
Individual protection measures, s	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles). Face shield is recommended.
Skin protection	Week enventiete ekseniet voistent eleves
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	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	Amber.
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	> 250.0 °F (> 121.1 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	olosive 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	1.55 g/cm3 Mixed components
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	2.5 % estimated

Specific gravity1.55 MiVOC33 g/l

1.55 Mixed components

10. Stability and reactiv	ity
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	Strong acids. Strong oxidizing agents. Halogens.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Dermatitis. Rash.

#### Information on toxicological effects

Acute toxicity	Not known.	
Components	Species	Test Results
Ethyl Benzene (CAS 100-41-4)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	17800 mg/kg
Oral		
LD50	Rat	3500 mg/kg
Xylene (CAS 1330-20-7)		
Acute		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Rat	6350 mg/l, 4 Hours
Oral		
LD50	Rat	3523 - 8600 mg/kg
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 sensitization	n	
<b>Respiratory sensitization</b>	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	Risk of cancer cannot be excluded with prolonged exposure.	
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Ethyl Benzene (CAS 100-41-4)2B Possibly carcinogenic to humans.Xylene (CAS 1330-20-7)3 Not classifiable as to carcinogenicity to humans.		

OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1053)		
Not listed.			
US. National Toxicology Pro	ogram (NTP) Report on Carcinogens		
Not listed.			
Reproductive toxicity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.		
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. Prolonged exposure may cause chronic effects.		
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	iol / water (log Kow)		
Ethyl Benzene	3.15		
Xylene Mobility in soil	3.12 - 3.2		
-	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. 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

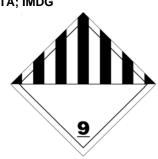
UN3082
Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin:reaction Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin))
9
-
III
Yes
9L
Read safety instructions, SDS and emergency procedures before handling.
Allowed with restrictions.
Allowed with restrictions.
UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin:--reaction Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin)), MARINE POLLUTANT (Epoxy Resin:--reaction Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin))

Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	111
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
<u> </u>	

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling. Epoxy Resin:--reaction Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin) **hsport in bulk according to** Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code IATA; IMDG



Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

## 15. Regulatory information

**US** federal regulations

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

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

Aluminium Oxide (CAS 1344-28-1)	% 1.0
Ethyl Benzene (CAS 100-41-4)	% 0.1
Xylene (CAS 1330-20-7)	% 1.0
US EPCRA (SARA Title III) Section 313 -	Toxic Chemical: Listed substance
Aluminium Oxide (CAS 1344-28-1)	Listed.
Ethyl Benzene (CAS 100-41-4)	Listed.
Xylene (CAS 1330-20-7)	Listed.
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)
Ethyl Benzene (CAS 100-41-4)	Listed.
Xylene (CAS 1330-20-7)	Listed.
SARA 304 Emergency release notification	

Not regulated.

Not listed.				
Superfund Amendments and SARA 302 Extremely haza		1986 (SARA)		
Not listed.	ardous substance			
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Respiratory or skin s	sensitization		
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
Aluminium Oxide		1344-28-1	40 - 60	_
Ethyl Benzene		100-41-4	0.1 - 1	
Xylene		1330-20-7	1 - 2.5	
Other federal regulations	an 440 Uanandava Air I			
Clean Air Act (CAA) Secti Ethyl Benzene (CAS 1		Pollutants (HAPS) List		
Xylene (CAS 1330-20- Clean Air Act (CAA) Secti	7)	elease Prevention (40 C	FR 68 130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Contains componen	t(s) regulated under the S	Safe Drinking Water Act.	
US state regulations				
California Proposition 65				
-	This product can expose	you to Ethyl Benzene, w	hich is known to the State	e of California to cause
	cancer, and Toluene, wh	ich is known to the State nore information go to ww	of California to cause bir	
California Proposition	n 65 - CRT: Listed date/	Carcinogenic substanc	e	
Ethyl Benzene (C/ US. California. Candio subd. (a))		Listed: June 7		e Regs, tit. 22, 69502.3,
Ethyl Benzene (C/ Xylene (CAS 1330	,			
International Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory	of Chemical Substances	(AICS)	Yes
Canada	Domestic Substance	es List (DSL)		Yes
Canada	Non-Domestic Subs	tances List (NDSL)		No
China	Inventory of Existing	Chemical Substances in	h China (IECSC)	Yes
Europe	European Inventory Substances (EINEC	of Existing Commercial C S)	Chemical	No
Europe	European List of No	tified Chemical Substance	es (ELINCS)	No
Japan	Inventory of Existing	and New Chemical Subs	stances (ENCS)	No
Korea	Existing Chemicals	List (ECL)		Yes
New Zealand	New Zealand Invent	ory		Yes
Philippines	Philippine Inventory (PICCS)	of Chemicals and Chemi	cal Substances	Yes
Taiwan	Taiwan Chemical Su	ubstance Inventory (TCSI	)	Yes
United States & Puerto Rice	D Toxic Substances C	ontrol Act (TSCA) Invento	ory	Yes
*A "Yes" indicates that all com A "No" indicates that one or m country(s).				governing country(s) administered by the governing

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# 16. Other information, including date of preparation or last revisionIssue date05-28-2019

# Issue date 05-28-2019 Revision date 01-24-2021

Version # HMIS® ratings	04 Health: 2
C C	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	<b>DEVCON®</b> Ceramic Repai	r Compound Har	dener
Other means of identification			
SKU#	5030		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	ITW Performance Polymers	3	
Address	30 Endicott Street		
	Danvers, MA 01923 United States		
Telephone	Customer Service	978-777-1100	
Website	www.itwperformancepolyme	ers.com	
E-mail	Not available.		
Contact person	EHS Department		
Emergency phone number	Chemtrec	800-424-9300	
	International	703-527-3887	
2. Hazard(s) identification	1		
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
	Acute toxicity, inhalation		Category 4
	Skin corrosion/irritation		Category 1
	Serious eye damage/eye irr	ritation	Category 1
	Sensitization, skin		Category 1A
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Harmful if swallowed. Cause reaction. Causes serious ey		rns and eye damage. May cause an allergic skin jul if inhaled.
Precautionary statement		C C	
Prevention	Do not breathe mist/vapors.	. Wash thoroughly	after handling. Do not eat, drink or smoke when
	using this product. Use only	outdoors or in a v	well-ventilated area. Contaminated work clothing ear protective gloves/protective clothing/eye
Response	contaminated clothing. Rins keep comfortable for breath Remove contact lenses, if p	se skin with water/s ing. If in eyes: Rin present and easy to	omiting. If on skin (or hair): Take off immediately all shower. If inhaled: Remove person to fresh air and use cautiously with water for several minutes. o do. Continue rinsing. Immediately call a poison Get medical advice/attention. Wash contaminated

Store locked up.

Storage

None.

## Supplemental information

## 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Benzyl Alcohol		100-51-6	20 - 40
Formaldehyde, Polymer W Benzenamine, Hydrogena		135108-88-2	20 - 40
Benzene-1,3-dimethanear	nine	1477-55-0	10 - 20
Titanium Dioxide	TITANIUM DIOXIDE	13463-67-7	2.5 - 10
Organic Acid		N/A	1 - 5
4,4'-methylenedicyclohexa	ineamine	1761-71-3	1 - 2.5
Other components below	reportable levels		10 - 20

## 4. First-aid 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	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media	Foam. Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear
•	
protective equipment and	appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not
emergency procedures	touch damaged containers or spilled material unless wearing appropriate protective clothing.
0 71	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	Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

## 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 CFR 1910	0.1000)			
Components	Туре		Value	Form
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 Value	-			
Components	Туре		Value	
Benzene-1,3-dimethaneami ne (CAS 1477-55-0)	Ceiling		0.1 mg/m3	
Titanium Dioxide (CAS 13463-67-7)	TWA		10 mg/m3	
US. NIOSH: Pocket Guide to Cher	nical Hazards			
Components	Туре		Value	
Benzene-1,3-dimethaneami ne (CAS 1477-55-0)	Ceiling		0.1 mg/m3	
US. Workplace Environmental Ex	posure Level (WEEL)	Guides		
Components	Туре		Value	
Benzyl Alcohol (CAS 100-51-6)	TWA		44.2 mg/m3	
			10 ppm	
ogical limit values No b	piological exposure limit	s noted for the ingr	edient(s).	
osure guidelines		0	~ /	
US - California OELs: Skin design	ation			
Benzene-1,3-dimethaneamine US - Tennessee OELs: Skin desig	(CAS 1477-55-0)	Can be absorb	ed through the skin.	
Benzene-1,3-dimethaneamine US ACGIH Threshold Limit Values	(CAS 1477-55-0)	Can be absorb	ed through the skin.	
Benzene-1,3-dimethaneamine	-	Can be absorb	ed through the skin.	
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#### US NIOSH Pocket Guide to Chemical Hazards: Skin designation Benzene-1,3-dimethaneamine (CAS 1477-55-0) Can be absorbed through the skin. Appropriate engineering 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 controls 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 Wear safety glasses with side shields (or goggles) and a face shield. Face shield is Eye/face protection recommended. Skin protection Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. **Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. Thermal hazards Wear appropriate thermal protective clothing, when necessary. Keep away from food and drink. Always observe good personal hygiene measures, such as **General hygiene** washing after handling the material and before eating, drinking, and/or smoking. Routinely wash considerations work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

of the store and offernious	p. opo
Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Amber.
Odor	Mild. 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	401.54 °F (205.3 °C) estimated
Flash point	> 199.9 °F (> 93.3 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.13 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	816.8 °F (436 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.19 g/cm3 estimated

Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.19 estimated
VOC	0 g/l

10. Stability and reactivity	ty
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	Strong oxidizing agents.
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

Acute toxicity	Harmful if inhaled. Harmful if s	wallowed.	
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	
Skin corrosion/irritation	Causes severe skin burns and	eye damage.	
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitization	ı		
<b>Respiratory sensitization</b>	Due to partial or complete lack of data the classification is not possible.		
Skin sensitization	May cause an allergic skin rea	ction.	
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		
Titanium Dioxide (CAS 1 OSHA Specifically Regulate	3463-67-7) <mark>d Substances (29 CFR 1910.1</mark> 0	2B Possibly carcinogenic to humans. 01-1053)	
Not listed.			
••	ogram (NTP) Report on Carcino	ogens	
Not listed.			
Reproductive toxicity	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.	

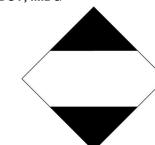
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Chronic effects	Prolonged inhalation may be harmful.
12. Ecological information	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 Benzyl Alcohol	nol / 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	
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	
Special precautions for user Special provisions	Read safety instructions, SDS and emergency procedures before handling. IB3, T7, TP1, TP28
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
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	
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	III
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT; IMDG	



ΙΑΤΑ



## 15. Regulatory information

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.

**US** federal regulations

## 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 chemical	Yes
Classified hazard categories	Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitization

## SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
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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 inv	entory (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	05-28-2019
Revision date	04-29-2020
Version #	02
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. This document has undergone significant changes and should be reviewed in its entirety.

**Revision information**