# SAFETY DATA SHEET

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

# 3. Composition/information on ingredients

# Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminium oxide		1344-28-1	30 - 60
Epoxy Resin: Reaction product 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 - 5
ETHYLBENZENE		100-41-4	0.1 - 1
Other components below	reportable levels		5 - 10

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

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. 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 irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	May cause an allergic skin reaction. Dermatitis. 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. 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 meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for	Prevent entry into waterways, sewer, basements or confined areas.
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. 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	Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. 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

-		-	
US.	ACGIH	Threshold	Limit Values

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

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

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

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

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

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

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

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

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

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

Components	Туре	Value	Form
ALUMINUM OXIDE (CAS 1344-28-1)	TWA	10 mg/m3	Total dust.
ETHYLBENZENE (CAS 100-41-4)	STEL	543 mg/m3	
		125 ppm	

Canada. Quebec OELs. (I Components		Туре	adon respecting	-	alue	Form
		TWA		4	34 mg/m3	
				1	00 ppm	
Xylene (CAS 1330-20-7)		STEL		6	51 mg/m3	
				1	50 ppm	
		TWA		4	.34 mg/m3	
				1	00 ppm	
Canada. Saskatchewan C Components	• •	al Heal Type	th and Safety Re	•	96, Table 2 /alue	21)
ALUMINUM OXIDE (CAS		15 mir	ute	2	0 mg/m3	
1344-28-1)		-			C C	
		8 hour		1	0 mg/m3	
ETHYLBENZENE (CAS 100-41-4)		15 mir	iute	1	25 ppm	
		8 hour		1	00 ppm	
Xylene (CAS 1330-20-7)		15 mir	ute	1	50 ppm	
		8 hour		1	00 ppm	
ological limit values						
ACGIH Biological Expos	ure Indices					
Components	Value		Determinant	Specimen	Samp	ling Time
ETHYLBENZENE (CAS 100-41-4)	0.15 g/g		Sum of mandelic acid and phenylglyoxylic	Creatinine in urine	า	*
Xylene (CAS 1330-20-7)	1.5 g/g		acid Methylhippuric acids	Creatinine in urine	n	*
* - For sampling details, ple	ease see the source	e docur		unne		
propriate engineering ntrols	Good general applicable, use maintain airbo	ventila e proce rne lev	tion should be use ess enclosures, loo	cal exhaust ver nended exposu	ntilation, or ire limits. If	Id be matched to conditions. If other engineering controls to exposure limits have not been
lividual protection measur Eye/face protection	es, such as persor	nal pro		nt		is recommended.
Skin protection						
Hand protection	Wear appropri	ate che	emical resistant gl	oves.		
Other	Wear appropri	ate che	emical resistant cl	othing. Use of	an impervi	ous apron is recommended.
Respiratory protection	In case of insu	Ifficient	ventilation, wear	suitable respira	atory equip	oment.
Thermal hazards	Wear appropri	ate the	rmal protective cl	othing, when n	ecessary.	
neral hygiene nsiderations	and before eat	ting, dr	inking, and/or smo	oking. Routine	ly wash wo	hing after handling the material ork clothing and protective g should not be allowed out of th
Physical and chemic	al properties					
pearance	Viscous. Liquid	d.				
Physical state	Liquid.					
Form	Viscous. Liquid	d.				
Colour	Amber.					
Colour	Allibel.					
lour	Slight.					

Melting point/freezing point	Not available.
Initial boiling point and boiling	320 °C (608 °F) estimated
range	
Flash point	> 121.1 °C (> 250.0 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower ( %)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.55 g/cm3 Mixed components
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidising properties	Not oxidising.
Percent volatile	2.5 % estimated
Specific gravity	1.55 Mixed components
VOC	33 g/l
10. Stability and reactivity	,
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

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 oxidising agents. Halogens.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure			
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	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 efformation	Not known.		
Components	Species	Test Results	
ETHYLBENZENE (CAS 100-41-4)	•		
Acute	)		
Dermal			
LD50	Rabbit	17800 mg/kg	
Oral			
LD50	Rat	3500 mg/kg	
Xylene (CAS 1330-20-7)			
Acute			
Dermal			
LD50	Rabbit	> 43 g/kg	
Inhalation	-		
LC50	Rat	6350 mg/l, 4 Hours	
Oral		0500 0000 "	
LD50	Rat	3523 - 8600 mg/kg	
Skin corrosion/irritation	•	ay cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitisation			
Respiratory sensitisation	Not a respiratory sensitize		
Skin sensitisation	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.	
ACGIH Carcinogens			
Aluminium oxide (CAS 1344-28-1) ETHYLBENZENE (CAS 100-41-4)		A4 Not classifiable as a human carcinogen. A3 Confirmed animal carcinogen with unknown relevance to humans.	
Xylene (CAS 1330-20-7)		A4 Not classifiable as a human carcinogen.	
Canada - Manitoba OELs: ca			
Aluminium oxide (CAS 13 ETHYLBENZENE (CAS		Not classifiable as a human carcinogen. Confirmed animal carcinogen with unknown relevance to humans.	
Xylene (CAS 1330-20-7)	100-41-4)	Not classifiable as a human carcinogen.	
IARC Monographs. Overall	Evaluation of Carcinogeni		
ETHYLBENZENE (CAS Xylene (CAS 1330-20-7)	100-41-4)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	Components in this produ laboratory animals.	ct have been shown to cause birth defects and reproductive disorders in	
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	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		e degradability of any ingredients in the mixture.	
Bioaccumulative potential			
Partition coefficient n-octan ETHYLBENZENE	nol / water (log Kow)	3.15	
Xylene		3.12 - 3.2	

Mobility in soil	No data available.
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal 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

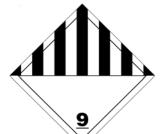
### TDG

Not regulated as dangerous goods.

# ΙΑΤΑ

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin:reaction Product Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin))
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	
Environmental hazards	Yes
ERG Code	9L
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	UN3082
UN proper shipping name	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	
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Epoxy Resin:reaction Produc	t Of Bisphenol A And Epichlorohydrin (refer To Epichlorohydrin)
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

### IATA; IMDG



#### Marine pollutant



### **General information**

IMDG Regulated Marine Pollutant.

# 15. Regulatory information

**Canadian regulations** 

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

# **Controlled Drugs and Substances Act** Not regulated.

Export Control List (CEPA 1	999, Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed.		
Ontario. Toxic Substances.	Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)	
ETHYLBENZENE (CAS 1 Xylene (CAS 1330-20-7)	100-41-4)	
Precursor Control Regulation	ons	
Not regulated.		
International regulations		
Stockholm Convention		
Not applicable.		
Rotterdam Convention		
Not applicable.		
Kyoto Protocol		
Not applicable.		
Montreal Protocol		
Not applicable.		
Basel Convention		
Not applicable.		
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information	
Issue date	28-May-2019
Revision date	24-January-2021
Version No.	04
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.	dentification

1. Identification		
Product identifier	DEVCON® Ceramic Repair Compound Har	dener
Other means of identification		
SKU#	5030	
Recommended use	Not available.	
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Company name	ITW Performance Polymers	
Address	35 Brownridge Rd	
	Unit 1	
	Halton Hills, ON L7G 0C6	
Contact person	Customer Service	
Telephone number	978-777-1100	
Fax		
E-mail	800 404 0000	
Emergency telephone number	800-424-9300	
Supplier	Not available.	
2. Hazard identification		
Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1A
Environmental hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled.	
Precautionary statement	, ,	
Prevention	Do not breathe mist/vapours. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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 CENTRE/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.	
Storage	Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Benzyl alcohol		100-51-6	15 - 40
Formaldehyde, Polymer With Benzenamine, Hydrogenated		135108-88-2	15 - 40
Benzene-1,3-dimethaneamine		1477-55-0	10 - 30
4,4'-methylenedicyclohexaneamine		1761-71-3	1 - 5
Organic acid		N/A	1 - 5
Titanium dioxide	Titanium dioxide	13463-67-7	1 - 5
TRIETHYLENETETRAMINE	TETA	112-24-3	0.5 - 1.5
Other components below reportable levels			7 - 13

Other components below reportable levels

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

#### 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 centre 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 centre 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 centre immediately. Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If Ingestion vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may Most important include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including symptoms/effects, acute and delayed blindness could result. Indication of immediate Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water medical attention and special 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 treatment needed observation. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information** protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

00	
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 appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do protective equipment and not touch damaged containers or spilled material unless wearing appropriate protective clothing. emergency procedures 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		
	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/vapours. 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.	
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

US. ACGIH Threshold Limit Values	-		
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	
Canada. Alberta OELs (Occupatio	nal Health & Safety Code, Sch	redule 1, Table 2)	
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	
Canada. British Columbia OELs. (	Occupational Exposure Limit	s for Chemical Substances. (	Occupational Health and
Safety Regulation 296/97, as amer		<b>-</b> ,	
Components	Туре	Value	Form
Benzene-1,3-dimethaneami ne (CAS 1477-55-0)	Ceiling	0.1 mg/m3	
Titanium dioxide (CAS	TWA	3 mg/m3	Respirable fraction.
13463-67-7)		C C	
		10 mg/m3	Total dust.
13463-67-7)	/2006. The Workplace Safety	6	
	/2006, The Workplace Safety Type	6	
13463-67-7) Canada. Manitoba OELs (Reg. 217		And Health Act)	
13463-67-7) Canada. Manitoba OELs (Reg. 217 Components Benzene-1,3-dimethaneami	Туре	And Health Act) Value	
13463-67-7) Canada. Manitoba OELs (Reg. 217 Components Benzene-1,3-dimethaneami ne (CAS 1477-55-0) Titanium dioxide (CAS 13463-67-7)	Type Ceiling TWA	And Health Act) Value 0.1 mg/m3 10 mg/m3	
13463-67-7) Canada. Manitoba OELs (Reg. 217 Components Benzene-1,3-dimethaneami ne (CAS 1477-55-0) Titanium dioxide (CAS	Type Ceiling TWA	And Health Act) Value 0.1 mg/m3 10 mg/m3	
13463-67-7) Canada. Manitoba OELs (Reg. 217 Components Benzene-1,3-dimethaneami ne (CAS 1477-55-0) Titanium dioxide (CAS 13463-67-7) Canada. Ontario OELs. (Control of	Type Ceiling TWA f Exposure to Biological or Cl	And Health Act) Value 0.1 mg/m3 10 mg/m3	
13463-67-7) Canada. Manitoba OELs (Reg. 217 Components Benzene-1,3-dimethaneami ne (CAS 1477-55-0) Titanium dioxide (CAS 13463-67-7) Canada. Ontario OELs. (Control of Components Benzene-1,3-dimethaneami ne (CAS 1477-55-0) Titanium dioxide (CAS	Type Ceiling TWA f Exposure to Biological or Cl Type	And Health Act) Value 0.1 mg/m3 10 mg/m3 hemical Agents) Value	
13463-67-7) Canada. Manitoba OELs (Reg. 217 Components Benzene-1,3-dimethaneami ne (CAS 1477-55-0) Titanium dioxide (CAS 13463-67-7) Canada. Ontario OELs. (Control of Components Benzene-1,3-dimethaneami	Type Ceiling TWA f Exposure to Biological or Cl Type Ceiling	And Health Act) Value 0.1 mg/m3 10 mg/m3 hemical Agents) Value 0.1 mg/m3	•

Canada. Quebec OELs. (Mill Components	nistry of Labor - Regulatior Type	n respecting occupational health and safety) Value Form
Benzene-1,3-dimethaneami ne (CAS 1477-55-0)	Ceiling	0.1 mg/m3
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3 Total dust.
Canada. Saskatchewan OE Components	Ls (Occupational Health ar Type	nd Safety Regulations, 1996, Table 21) Value
Benzene-1,3-dimethaneami ne (CAS 1477-55-0)	Ceiling	0.1 mg/m3
Titanium dioxide (CAS 13463-67-7)	15 minute	20 mg/m3
	8 hour	10 mg/m3
ological limit values	No biological exposure lim	its noted for the ingredient(s).
posure guidelines		
Canada - Alberta OELs: Ski	n designation	
Benzene-1,3-dimethanea Canada - British Columbia	amine (CAS 1477-55-0)	Can be absorbed through the skin.
Benzene-1,3-dimethanea Canada - Manitoba OELs: S	. ,	Can be absorbed through the skin.
Benzene-1,3-dimethanea Canada - Ontario OELs: Ski		Can be absorbed through the skin.
Benzene-1,3-dimethanea		Can be absorbed through the skin.
	. ,	Can be absorbed through the skin.
Canada - Quebec OELs: Sk Benzene-1,3-dimethanea	•	Can be absorbed through the skin.
Canada - Saskatchewan OE	. ,	Call be absorbed through the skin.
Benzene-1,3-dimethanea	amine (CAS 1477-55-0)	Can be absorbed through the skin.
Benzene-1,3-dimethanea	-	Can be absorbed through the skin.
propriate engineering ntrols	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.	
lividual protection measures Eye/face protection	such as personal protective equipment Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended.	
Skin protection		
Hand protection	Wear appropriate chemica	al resistant gloves.
Other	Wear appropriate chemica	al resistant clothing. Use of an impervious apron is recommended.
Respiratory protection Thermal hazards	In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate thermal protective clothing, when necessary.	
neral hygiene nsiderations	washing after handling the	drink. Always observe good personal hygiene measures, such as material and before eating, drinking, and/or smoking. Routinely was ve equipment to remove contaminants. Contaminated work clothing of the workplace.

5. Filysical and chemical properties	
Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Amber.
Odour	Mild. Ammoniacal.
Odour threshold	Not available.

рН	Not available.
Melting point/freezing point	-15.2 °C (4.64 °F) estimated
Initial boiling point and boiling range	205.3 °C (401.54 °F) estimated
Flash point	> 93.3 °C (> 199.9 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower ( %)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	0.13 hPa estimated
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	436 °C (816.8 °F) 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
Oxidising properties	Not oxidising.
Specific gravity	1.19 estimated
VOC	0 g/l
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 polymerisation does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidising 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.

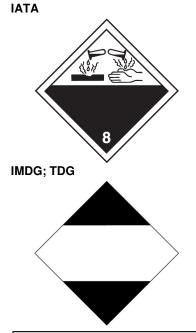
### Information on toxicological effects

Acute toxicity	Harmful if inhaled. Harmful if s	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
TRIETHYLENETETRAMINE (CAS	5 112-24-3)	
Acute		
Dermal		
Liquid		
LD50	Rat	1465 mg/kg
Oral		
Liquid	_	
LD50	Rat	1716 mg/kg
Skin corrosion/irritation	Causes severe skin burns and	d eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitisation	n	
Canada - Alberta OELs: Irrit	ant	
Benzene-1,3-dimethanea Titanium dioxide (CAS 13		Irritant Irritant
Respiratory sensitisation	Due to partial or complete lac	of data the classification is not possible.
Skin sensitisation	May cause an allergic skin rea	action.
Germ cell mutagenicity	Due to partial or complete lac	of data the classification is not possible.
Carcinogenicity	Due to partial or complete lac	of data the classification is not possible.
ACGIH Carcinogens		
Titanium dioxide (CAS 13		A4 Not classifiable as a human carcinogen.
Canada - Manitoba OELs: ca	• •	
	Evaluation of Carcinogenicity	Not classifiable as a human carcinogen.
Titanium dioxide (CAS 13		2B Possibly carcinogenic to humans.
Reproductive toxicity	Due to partial or complete lac	c 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 lac	c of data the classification is not possible.
Aspiration hazard	Due to partial or complete lac	of data the classification is not possible.
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological information	ı	
Ecotoxicity		s environmentally hazardous. However, this does not exclude the nt spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the de	gradability 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		tal effects (e.g. ozone depletion, photochemical ozone creation , 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

TDG	
UN number	UN2735
UN proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (Benzene-1,3-dimethaneamine), Limited Quantity
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	
Environmental hazards	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
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	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
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	
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
· ·	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	



# 15. Regulatory information

Canadian regulations	This product has been classified in accordance with the hazard crite contains all the information required by the HPR.	eria of the HPR and the SDS
Controlled Drugs and Su	ibstances Act	
Not regulated.		
Export Control List (CEP	A 1999, Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed.		
Precursor Control Regul	ations	
Not regulated.		
nternational regulations		
Stockholm Convention		
Not applicable. Rotterdam Convention		
Not applicable. Kyoto Protocol		
Not applicable. Montreal Protocol		
Not applicable. Basel Convention		
Not applicable.		
nternational Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes

New Zealand Inventory

New Zealand

Yes

Country(s) or region	Inventory name On inventor	y (yes/no)*
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 compo	nents of this product comply with the inventory requirements administered by the governing country(s	;)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information	
Issue date	28-May-2019
Revision date	29-April-2020
Version No.	02
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.