SAFETY DATA SHEET

1. Identification

1. Identification			
Product identifier	DEVCON® Wear Guard™	' High Temp 450 I	Resin
Other means of identification SKU#	0138		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer			
Company name Address	ITW Performance Polymer 30 Endicott Street Danvers, MA 01923 United States	S	
Telephone	Customer Service	978-777-1100	
Website	www.itwperformancepolyn	ners.com	
E-mail Contact person	Not available. EHS Department		
Emergency phone number	Chemtrec International	800-424-9300 703-527-3887	
2. Hazard(s) identification	า		
Physical hazards	Not classified.		
Health hazards	Skin corrosion/irritation		Category 2
	Serious eye damage/eye i	rritation	Category 2
	Sensitization, skin		Category 1
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements	~		
Signal word	Warning		
Hazard statement	Causes skin irritation. May	cause an allergic	skin reaction. Causes serious eye irritation.
Precautionary statement			
Prevention			y after handling. Contaminated work clothing must e protection/face protection. Wear protective gloves.
Response			es: Rinse cautiously with water for several minutes.

Response	Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take
	off contaminated clothing and wash it before reuse.
Storage	Store away from incompatible materials.

Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

Supplemental information

3. Composition/information on ingredients

Mixtures

None.

Chemical name	Common name and synonyms	CAS number	%
ALUMINUM OXIDE		1302-74-5	40 - 60
Epoxy Resin:reaction Product Bisphenol A And Epichlorohydrir (refer To Epichlorohydrin)		25068-38-6	20 - 40
ALUMINATE SILICATE		1327-36-2	10 - 20
Carbon Black		1333-86-4	0.1 - 1
Titanium Dioxide	TITANIUM DIOXIDE	13463-67-7	0.1 - 1
Other components below reporta	able levels		1 - 5
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	ns develop or persist.	
Skin contact	Remove contaminated clothing immediately a eczema or other skin disorders: Seek medica contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists		
Ingestion	Rinse mouth. Get medical attention if sympton		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include vision. Skin irritation. May cause redness and Rash.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tree Symptoms may be delayed.	at symptomatically. Keep victir	n under observation.
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		
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	is will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	-	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do s		
Specific methods	Use standard firefighting procedures and con-	sider the hazards of other invo	lved 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	g during clean-up. Avoid breath erial unless wearing appropriat s should be advised if significa	ing mist/vapors. Do e protective clothing.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is possible. Absorb in vermiculite, dry sand or ea recovery, flush area with water.		
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, fleece). Clean surf	ace thoroughly to
Environmental precautions	Never return spills to original containers for re Avoid discharge into drains, water courses or		section 13 of the SDS.
7. Handling and storage			
Precautions for safe handling	Avoid breathing mist/vapors. Avoid contact wi exposure. Provide adequate ventilation. Wear good industrial hygiene practices.		

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
Carbon Black (CAS 1333-86-4)	PEL	3.5 mg/m3	
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CF Components	R 1910.1000) Type	Value	Form
ALUMINUM OXIDE (CAS 1302-74-5)	TWA	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Titanium Dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Components	t Values Type	Value	Form
	TWA	1 mg/m3	Respirable fraction.
(CAS 1327-36-2)		T mg/mo	
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to			
Components	Туре	Value	
Carbon Black (CAS 1333-86-4)	TWA	0.1 mg/m3	
ogical limit values	No biological exposure limits noted	for the ingredient(s).	
ropriate engineering trols	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.		
vidual protection measures Eye/face protection	, such as personal protective equipment Wear safety glasses with side shields (or goggles). Face shield is recommended.		
Skin protection Hand protection	Wear appropriate chemical resistant gloves.		
Other	Wear appropriate chemical resistar	t clothing. Use of an impervious	apron is recommended.
Respiratory protection	In case of insufficient ventilation, we	ear suitable respiratory equipme	nt.
Thermal hazards	Wear appropriate thermal protective	e clothing, when necessary.	
eral hygiene siderations	Always observe good personal hygiene measures, such as washing after handling the n and before eating, drinking, and/or smoking. Routinely wash work clothing and protectiv equipment to remove contaminants. Contaminated work clothing should not be allowed workplace.		

9. Physical and chemical properties

9. Physical and chemical	properties
Appearance	Viscous. Liquid.
Physical state	Liquid.
Form	Viscous. Liquid.
Color	Not available.
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	265.0 °F (129.4 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	2.10 g/cm3 Mixed components
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	2.1 Mixed components
VOC	100 % Solids
40 Stability and reactivity	

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. 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

Information on likely routes of e	•		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	Causes skin irritation. May cause an allergic skin reaction.		
Eye contact	Causes serious eye irritation.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.		
Information on toxicological effe	ects		
Acute toxicity	Not known.		
Components	Species	Test Results	
Carbon Black (CAS 1333-86-4)			
<u>Acute</u> Oral			
LD50	Rat	> 8000 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization	1		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin 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 carcinog	enicity to humans.	
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
Carbon Black (CAS 1333 Titanium Dioxide (CAS 13 OSHA Specifically Regulate		2B Possibly carcinogenic to humans. 2B Possibly carcinogenic to humans. 001-1053)	
Not listed.	·		
	ogram (NTP) Report on Carcin	ogens	
Carbon Black (CAS 1333		Known To Be Human Carcinogen.	
Reproductive toxicity	This product is not expected t	o cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological information	1		
Ecotoxicity		is 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 degradability of any ingredients in the mixture.		
Bioaccumulative potential			
Mobility in soil	No data available.		
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		
13. Disposal consideratio	ns		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with a	I 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 g	oods.
IATA	
Not regulated as dangerous g	oods.
IMDG	
Not regulated as dangerous g	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
15. Regulatory informatio	n
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication
00 lederal regulations	Standard, 29 CFR 1910.1200.
Toxic Substances Control A	ict (TSCA)
TSCA Section 12(b) Exp	oort Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed. SARA 304 Emergency relea	se notification
Not regulated. OSHA Specifically Regulate Not listed.	d Substances (29 CFR 1910.1001-1053)
	authorization Act of 1986 (SARA)
SARA 302 Extremely hazard	
Not listed.	
SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	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.	
	112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Contains component(s) regulated under the Safe Drinking Water Act.
US state regulations	
California Proposition 65	
of ca	is product can expose you to chemicals including Titanium Dioxide, which is known to the State California to cause cancer, and Methyl Alcohol, which is known to the State of California to use birth defects or other reproductive harm. For more information go www.P65Warnings.ca.gov.
	5 - CRT: Listed date/Carcinogenic substance
Carbon Black (CAS	-

Carbon Black (CAS 1333-86-4)

Listed: February 21, 2003

 Titanium Dioxide (CAS 13463-67-7)
 Listed: September 2, 2011

 California Proposition 65 - CRT: Listed date/Developmental toxin

 Methyl Alcohol (CAS 67-56-1)
 Listed: March 16, 2012

 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,

subd. (a))

Carbon Black (CAS 1333-86-4) 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)	No
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	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 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	05-19-2021
Version #	06
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.

SAFETY DATA SHEET

1. Identification

1. Identification				
Product identifier	DEVCON® Wear Guard™ High Temp Hardener			
Other means of identification				
SKU#	5322			
Recommended use	Not available.			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier	Distributor information			
Manufacturer				
Company name Address	ITW Performance Polymers 30 Endicott Street Danvers, MA 01923 United States			
Telephone	Customer Service	978-777-1100		
Website E-mail	www.itwperformancepolym Not available.	ers.com		
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, dermal		Category 4	
	Skin corrosion/irritation		Category 1	
	Serious eye damage/eye ir	ritation	Category 1	
	Sensitization, skin		Category 1A	
Environmental hazards	Not classified.			
OSHA defined hazards	Not classified.			
	Not classified.			
Label elements				
Signal word	Danger			
Hazard statement	Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage.			
Precautionary statement				
Prevention	Do not breathe mist/vapors. 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 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/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention.			
Storage	Store locked up.			
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	%
Isophoronediamine		2855-13-2	90 - 100
Ethyl Alcohol		64-17-5	1 - 2.5
Other components below reportable 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. 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	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 measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this 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. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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	or Air Contaminants (29 CFR 1910. Type	Value
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm
US. ACGIH Threshold Limit Components	Values Type	Value
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
US. NIOSH: Pocket Guide to	Chemical Hazards	
Components	Туре	Value
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
ological limit values	No biological exposure limits noted	for the ingredient(s).
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,	such as personal protective equip	ment
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended.	
Skin protection Hand protection	Wear appropriate chemical resistar	it 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.	
eneral hygiene nsiderations	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.	

9. Physical and chemical properties

Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Black.
Odor	Slight. Amine
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	50 °F (10 °C) estimated
Initial boiling point and boiling range	476.6 °F (247 °C) estimated

Flash point	242.6 °F (117.0 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.02 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.92 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	0.92 estimated
VOC	< 10 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 polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Peroxides. Phenols.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

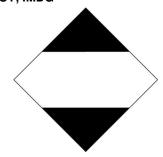
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.	
Skin contact	Causes severe skin burns. Harmful in contact with skin. May cause an allergic skin reaction.	
Eye contact	Causes serious eye damage.	
Ingestion	Causes digestive tract burns. Harmful if swallowed.	
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 in contact with skin. Harmful if swallowed.

Components	Species	Test Results	
Ethyl Alcohol (CAS 64-17-5)			
<u>Acute</u>			
Inhalation			
LC50	Mouse	39 mg/l, 4 Hours	
Oral			
LD50	Rat	6.2 g/kg	
Skin corrosion/irritation	Causes severe skin burns ar	nd eye damage.	
Serious eye damage/eye irritation	Causes serious eye damage	э.	
Respiratory or skin sensitization	on		
Respiratory sensitization	Due to partial or complete la	ck of data the classification is not possible.	
Skin sensitization	May cause an allergic skin re	eaction.	
Germ cell mutagenicity	Due to partial or complete la	ck of data the classification is not possible.	
Carcinogenicity	Due to partial or complete la	ck of data the classification is not possible.	
IARC Monographs. Overal	I Evaluation of Carcinogenicity	у	
Not listed. OSHA Specifically Regulat	ted Substances (29 CFR 1910.	1001-1053)	
Not listed. US. National Toxicology P	rogram (NTP) Report on Carci	nogens	
Not listed.	5 () 1	5	
Reproductive toxicity	Possible reproductive hazard	d.	
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	on		
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 d	No data is available on the degradability of any ingredients in the mixture.	
Bioaccumulative potential			
Partition coefficient n-octa Ethyl Alcohol	anol / water (log Kow)	-0.31	
Mobility in soil	No data available.	No data available.	
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		
13. Disposal considerati	ons		
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		ay retain product residue, follow label warnings even after container is hould be taken to an approved waste handling site for recycling or	

-	
DOT	
UN number	UN2289
UN proper shipping name	ISOPHORONEDIAMINE Solution, Limited Quantity
Transport hazard class(es)	
Class	8
Subsidiary risk	- -
Label(s)	8
Packing group	III
•••	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, T4, TP1
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN2289
UN proper shipping name	ISOPHORONEDIAMINE Solution, Limited Quantity
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
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	UN2289
UN proper shipping name	ISOPHORONEDIAMINE Solution, 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	
DOT; IMDG	
A	





15. Regulatory information This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations 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) Ethyl Alcohol (CAS 64-17-5) 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 Contains component(s) regulated under the Safe Drinking Water Act. (SDWA) FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace Ethyl Alcohol (CAS 64-17-5) Low priority **US state regulations California Proposition 65** WARNING: This product can expose you to chemicals including Ethyl Alcohol, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. California Proposition 65 - CRT: Listed date/Carcinogenic substance Aniline (CAS 62-53-3) Listed: January 1, 1990 Ethyl Alcohol (CAS 64-17-5) Listed: April 29, 2011 Listed: July 1, 1988 Methyl Isobutyl Ketone (MIBK) (CAS 108-10-1) Listed: November 4, 2011 California Proposition 65 - CRT: Listed date/Developmental toxin Ethyl Alcohol (CAS 64-17-5) Listed: October 1, 1987 Methyl Alcohol (CAS 67-56-1) Listed: March 16, 2012 Methyl Isobutyl Ketone (MIBK) (CAS 108-10-1) Listed: March 28, 2014

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
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	05-29-2019
Revision date	04-28-2020
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.
Revision information	Composition/information on ingredients: Component information Stability and reactivity: Conditions to avoid Toxicological information: Aspiration hazard Toxicological information: Carcinogenicity Toxicological information: Mutagenicity Toxicological information: Reproductivity Toxicological information: Respiratory sensitization Toxicological information: Ingestion Toxicological information: Skin contact Toxicological information: Specific target organ toxicity - repeated exposure Toxicological information: Specific target organ toxicity - single exposure