# SAFETY DATA SHEET

# 1. Identification

1. Identification				
Product identifier	DEVCON® Flexane 94 Liquid Resin			
Other means of identification				
SKU#	0321			
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.itwperformancepolymers.com Not available.			
Contact person	EHS Department			
Emergency phone number	Chemtrec 800-424-9300			
	International 703-527-3887			
2. Hazard(s) identification				
Physical hazards	Not classified.			
Health hazards	Acute toxicity, inhalation	Category 2		
induiti induiti do	Skin corrosion/irritation	Category 2		
	Serious eye damage/eye irritation	Category 2		
	Sensitization, respiratory	Category 1		
	Sensitization, skin			
		Category 1		
For incomparial barranda	Specific target organ toxicity, single exposu	e Category 3 respiratory tract irritation		
Environmental hazards	Not classified.			
OSHA defined hazards	Not classified.			
Label elements				
Signal word	Danger			
Hazard statement	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.			
Precautionary statement				
Prevention	Do not breathe vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves. Wear respiratory protection.			
Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). 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 in a well-ventilated place. Keep container tightly closed. Store locked up.			
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.			

None known.

None.

Supplemental information

# 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%	
Polyol		N/A	60 - 80	
4,4'-Methylenedicyclohexyl diisocyanate		5124-30-1	20 - 40	
Other components below reportable levels			1 - 2.5	
4. First-aid measures				
nhalation	Remove victim to fresh air and keep at rest ir artificial respiration if needed. Do not use mo			

	Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
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. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Water. 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 vapors or spray mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

### Precautions for safe handling

Do not breathe vapors or spray mist. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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

### 8. Exposure controls/personal protection

### **Occupational exposure limits**

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

US. ACGIH Threshold Limit Components	Туре	Value	
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	TWA	0.005 ppm	
US. NIOSH: Pocket Guide to Components	o Chemical Hazards Type	Value	
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	Ceiling	0.11 mg/m3	
		0.01 ppm	
Biological limit values	No biological exposure limits noted	d for the ingredient(s).	
Exposure guidelines			
US - Tennessee OELs: Skin	designation		
4,4'-Methylenedicyclohe (CAS 5124-30-1)	kyl diisocyanate Ca	In be absorbed through the skin.	
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station and safety shower.		
Individual protection measures	, such as personal protective equi	pment	
Eye/face protection	Chemical respirator with organic v	apor cartridge and full facepiece.	
Skin protection Hand protection	Wear appropriate chemical resista	ant gloves.	
Other	Wear appropriate chemical resista	ant clothing. Use of an impervious apron is recommended.	
<b>Respiratory protection</b>	Chemical respirator with organic v	apor cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protecti	ve clothing, when necessary.	
General hygiene considerations	and before eating, drinking, and/or	giene measures, such as washing after handling the material r smoking. Routinely wash work clothing and protective s. Contaminated work clothing should not be allowed out of the	

9. Physical and chemical properties		
Appearance	Liquid.	
Physical state	Liquid.	
Form	Liquid.	
Color	Clear.	
Odor	Musty.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	77 °F (25 °C) estimated	
Initial boiling point and boiling range	Not available.	

Flash point	392.0 °F (200.0 °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	0.00002 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.03 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.03 estimated

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Alcohols. Amines.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of	exposure			
Inhalation	Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
Skin contact	Causes skin irritation. May cause an allergic skin reaction.			
Eye contact	Causes serious eye irritation.			
Ingestion	Knowledge about health hazard is incomplete.			
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.			
Information on toxicological eff	fects			

# Information on toxicological effects

Acute toxicity

Fatal if inhaled.

	Species	Test Results	
4,4'-Methylenedicyclohexyl diisoc	yanate (CAS 5124-30-1)		
Acute			
Dermal		10000 //	
LD50	Rabbit	> 10000 mg/kg	
Inhalation LC50	Rat	0.295 mg/l, 4 Hours	
Oral	nai	0.295 High, 4 Hours	
LD50	Rat	1065 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye	Causes serious eye irritation.		
irritation			
Respiratory or skin sensitizatio	n		
Respiratory sensitization		toms or breathing difficulties if inhaled.	
Skin sensitization	May cause an allergic skin reaction		
Germ cell mutagenicity		ata the classification is not possible.	
Carcinogenicity		ata the classification is not possible.	
	Evaluation of Carcinogenicity		
Not listed. OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1	053)	
Not listed.			
US. National Toxicology Pr	ogram (NTP) Report on Carcinogen	S	
Not listed.			
Reproductive toxicity		ata the classification is not possible.	
Specific target organ toxicity - single exposure	May cause respiratory irritation.		
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 harmf	ul.	
12. Ecological informatio	n		
Ecotoxicity		vironmentally hazardous. However, this does not exclude the lls can have a harmful or damaging effect on the environment.	
Persistence and degradability	No data is available on the degrada	ability of any ingredients in the mixture.	
Bioaccumulative potential			
Partition coefficient n-octa 4,4'-Methylenedicyclohexyl d		1	
Mobility in soil	No data available.		
Other adverse effects		fects (e.g. ozone depletion, photochemical ozone creation oal warming potential) are expected from this component.	
13. Disposal consideration	ons		
Disposal instructions	Collect and reclaim or dispose in se contents/container in accordance w	ealed containers at licensed waste disposal site. Dispose of vith 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).		
	Cinco omntiad containare may rate	in product residue, follow label warnings even after container is	

# 14. Transport information

### DOT

Not regulated as dangerous goods.

## ΙΑΤΑ

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

#### Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

the IBC Code				
15. Regulatory information	n			
US federal regulations	This product is a "Ha Standard, 29 CFR 1		efined by the OSHA Hazard Comr	nunication
US EPCRA (SARA Title	III) Section 313 - Tox	ic Chemical: De minimi	s concentration	
4,4'-Methylenedicycl (CAS 5124-30-1)	lohexyl diisocyanate	% 1.0		
US EPCRA (SARA Title	III) Section 313 - Tox	ic Chemical: Listed sub	stance	
4,4'-Methylenedicycl (CAS 5124-30-1)	lohexyl diisocyanate	Listed.		
Toxic Substances Control	Act (TSCA)			
TSCA Section 12(b) Ex	port Notification (40 C	CFR 707, Subpt. D)		
Not regulated.				
CERCLA Hazardous Substa	ance List (40 CFR 302	.4)		
Not listed. SARA 304 Emergency relea	se notification			
Not regulated. OSHA Specifically Regulate	ed Substances (29 CF	R 1910.1001-1053)		
Not listed.				
Superfund Amendments and Re SARA 302 Extremely hazard		1986 (SARA)		
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Acute toxicity (any ro Skin corrosion or irri			
	Serious eye damage	e or eye irritation		
	Respiratory or skin s	sensitization 1 toxicity (single or repea	ted exposure)	
CADA 212 (TDI reporting)	opecine larger organ	Toxicity (Single of Tepea		
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
4,4'-Methylenedicyclohex	vl diisocvanate	5124-30-1	20 - 40	
Other federal regulations	, ,			
Clean Air Act (CAA) Section	n 112 Hazardous Air F	Pollutants (HAPs) List		
Not regulated.				
Clean Air Act (CAA) Section	n 112(r) Accidental Re	elease Prevention (40 C	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Contains componen	t(s) regulated under the \$	Safe Drinking Water Act.	
US state regulations				
California Proposition 65				
WARNING: Th			ng FURAN, which is known to the go to www.P65Warnings.ca.gov.	State of
California Proposition (	65 - CRT. Listed date/	Carcinogenic substanc	•	

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Acetaldehyde (CAS 75-07-0)

Listed: April 1, 1988

FURAN (CAS 110-00-9)	Listed: October 1, 1993
Propylene Oxide (CAS 75-56-9)	Listed: October 1, 1988

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

4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)

### **International Inventories**

Country(s) or region	Inventory name On i	nventory (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
	and the state of the second	

\*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

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Issue date	05-21-2019
Revision date	05-06-2020
Version #	03
HMIS® ratings	Health: 3 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: 1 Instability: 0
Disclaimer	ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

# SAFETY DATA SHEET

# 1. Identification

1. Identification			
Product identifier	DEVCON® Flexane® 94 Liqui	d Curing Ager	nt
Other means of identification			
SKU#	6921N		
Recommended use	Not available.		
<b>Recommended restrictions</b>	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	ITW Performance Polymers 30 Endicott Street Danvers, MA 01923 United States		
Telephone		8-777-1100	
Website	www.itwperformancepolymers.c Not available.	com	
E-mail Contact person	EHS Department		
Emergency phone number	•	0-424-9300	
		3-527-3887	
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
	Acute toxicity, dermal		Category 4
	Serious eye damage/eye irritati	00	Category 2A
	Specific target organ toxicity, re		Category 2
	exposure	pealeu	Calegory 2
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Warning		
Hazard statement	Harmful if swallowed. Harmful in damage to organs through prote		skin. Causes serious eye irritation. May cause ated exposure.
Precautionary statement			
Prevention			after handling. Do not eat, drink or smoke when protection. Wear protective gloves/protective
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of contents/container in	n accordance v	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 % Diethyltoluenediamine 68479-98-1 20 - 40 1333-86-4 Carbon Black 0.1 - 1 Other components below reportable levels 60 - 80 4. First-aid measures Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Skin contact Wash off with soap and water. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell. Most important Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects. symptoms/effects, acute and delayed Indication of immediate Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim medical attention and special under observation. Symptoms may be delayed. treatment needed General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. 5. Fire-fighting measures Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire. Unsuitable extinguishing media Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters **Fire fighting** Move containers from fire area if you can do so without risk. equipment/instructions Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted. General fire hazards 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/vapors. Do not protective equipment and 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. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is Methods and materials for possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product containment and cleaning up 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. Avoid discharge into drains, water courses or onto the ground. **Environmental precautions** 7. Handling and storage Precautions for safe handling Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. 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.

# 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	
Carbon Black (CAS 1333-86-4)	PEL	3.5 mg/m3	
US. ACGIH Threshold Lim			
Components	Туре	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
Carbon Black (CAS 1333-86-4)	TWA	0.1 mg/m3	
logical limit values	No biological exposure limits noted for the ingredient(s).		
propriate engineering htrols	Good general ventilation should be applicable, use process enclosures, maintain airborne levels below reco established, maintain airborne levels	, local exhaust ventilation, or o mmended exposure limits. If e	ther engineering controls to xposure limits have not been
ividual protection measure	s, such as personal protective equipr	nent	-
Eye/face protection	Chemical respirator with organic var	por cartridge and full facepiece	۶.
Skin protection Hand protection	Wear appropriate chemical resistan	t gloves.	
Other	Wear appropriate chemical resistan	t clothing. Use of an impervioι	us apron is recommended.
Respiratory protection	Chemical respirator with organic var	por cartridge and full facepiece	Э.
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
neral hygiene nsiderations	Keep away from food and drink. Alw washing after handling the material work clothing and protective equipm	and before eating, drinking, ar	

### 9. Physical and chemical properties

	P P
Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Black
Odor	Ammoniacal.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	312.8 °F (156.0 °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	0.00009 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.03 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.03 estimated
10. Stability and reactivity	

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

internation on intery realed of e	
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Harmful in contact with skin.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Information on toxicological off	acts

## Information on toxicological effects

Acute toxicity	Harmful in contact with skin. Harmful if swallowed.	
Components	Species	Test Results
Carbon Black (CAS 1333-86-4)		
Acute		
Oral		
LD50	Rat	> 8000 mg/kg
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization		
<b>Respiratory sensitization</b>	Due to partial or complete lack of data the classification is not possible.	
Skin sensitization	Due to partial or complete lack of data the classification is not possible.	
Germ cell mutagenicity	Due to partial or complete lac	k 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			
Carbon Black (CAS 1333 OSHA Specifically Regulate Not listed.	2B Possibly carcinogenic to humans. ad Substances (29 CFR 1910.1001-1053)		
	ogram (NTP) Report on Carcinogens		
Carbon Black (CAS 1333	3-86-4) Known To Be Human Carcinogen.		
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	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.		
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.		
12. Ecological information			
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal 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.		

	disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## Transport in bulk according to Not established.

# Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

# US federal regulations

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

### **Toxic Substances Control Act (TSCA)**

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

Diethyltoluenediamine (CAS 68479-98-1)

1.0 % One-Time Export Notification only.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Not regulated.	ase notification	
	ed Substances (29 CFR 1910.1001-1053)	
Not listed.		
uperfund Amendments and R	leauthorization Act of 1986 (SARA)	
SARA 302 Extremely haza	rdous substance	
Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Acute toxicity (any route of exposure) Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)	
SARA 313 (TRI reporting) Not regulated.		
ther federal regulations		
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Sectio	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
S state regulations		
California Proposition 65		
	his product can expose you to Carbon Black, which is known to the Sta ancer. For more information go to www.P65Warnings.ca.gov.	ate of California to cause
California Proposition	65 - CRT: Listed date/Carcinogenic substance	
Carbon Black (CAS		- de De ve tit 00 00500 0
subd. (a))	ate Chemicals List. Safer Consumer Products Regulations (Cal. Co	ode Regs, tit. 22, 69502.3,
Carbon Black (CAS	3 1333-86-4)	
ternational Inventories	····· ·· · · · · · · · · · · · · · · ·	
Country(s) or region	Inventory name	On inventory (yes/no
Australia	Australian Inventory of Chemical Substances (AICS)	Y Y
Canada	Domestic Substances List (DSL)	Y
Canada	Non-Domestic Substances List (NDSL)	1
China	Inventory of Existing Chemical Substances in China (IECSC)	Y
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Y
Europe	European List of Notified Chemical Substances (ELINCS)	I
Japan	Inventory of Existing and New Chemical Substances (ENCS)	I
Korea	Existing Chemicals List (ECL)	Y
	New Zealand Inventory	Y
New Zealand		V
	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	T
New Zealand		Y Y

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	05-22-2019	
Revision date	05-05-2020	

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Version #

HMIS® ratings NFPA ratings	Health: 2* Flammability: 1 Physical hazard: 0 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	Composition/information on ingredients: Component information Stability and reactivity: Conditions to avoid Toxicological information: Aspiration hazard Toxicological information: Carcinogenicity Toxicological information: Corrosivity Toxicological information: Eye contact Toxicological information: Mutagenicity Toxicological information: Reproductivity Toxicological information: Respiratory sensitization Toxicological information: Eye contact Toxicological information: Ingestion Toxicological information: Skin contact Toxicological information: Specific target organ toxicity - repeated exposure Toxicological information: Specific target organ toxicity - single exposure