SAFETY DATA SHEET

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	www.itwperformancepolymers.com			
E-mail	Not available. EHS Department			
Contact person Emergency phone number	Chemtrec 800-424-9300			
	International 703-527-3887			
2. Hazard(s) identification	l			
Physical hazards	Not classified.			
Health hazards	Acute toxicity, inhalation	Category 2		
noutri nuzuros	Skin corrosion/irritation	Category 2		
	Serious eye damage/eye irritation Category 2			
	Sensitization, respiratory Category 1			
	Sensitization, skin	Category 1		
	Specific target organ toxicity, single exposu	re 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 conta	iner tightly closed. Store locked up.		
Disposal	Dispose of contents/container in accordance	e 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 repo	ortable levels		1 - 2.5

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. 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	t Values Type	Value	
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	TWA	0.005 ppm	
US. NIOSH: Pocket Guide t 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	I for the ingredient(s).	
Exposure guidelines			
US - Tennessee OELs: Skir	n designation		
4,4'-Methylenedicyclohe (CAS 5124-30-1)	xyl diisocyanate Ca	n 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 equip	oment	
Eye/face protection	Chemical respirator with organic va	apor cartridge and full facepiece.	
Skin protection Hand protection	Wear appropriate chemical resista	nt gloves.	
Other	Wear appropriate chemical resista	nt clothing. Use of an impervious apron is recommended.	
Respiratory protection	Chemical respirator with organic va	apor cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protectiv	e clothing, when necessary.	
General hygiene considerations	and before eating, drinking, and/or	iene measures, such as washing after handling the material 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 effects				

Acute toxicity

Fatal if inhaled.

	Species	Test Results		
4,4'-Methylenedicyclohexyl diisocy	/anate (CAS 5124-30-1)			
<u>Acute</u>				
Dermal				
LD50	Rabbit	> 10000 mg/kg		
Inhalation	Det			
LC50	Rat	0.295 mg/l, 4 Hours		
Oral LD50	Rat	1065 mg/kg		
		roos nig/kg		
Skin corrosion/irritation	Causes skin irritation.			
Serious eye damage/eye irritation	Causes serious eye irritation.			
Respiratory or skin sensitizatior	n			
Respiratory sensitization	May cause allergy or asthma sym	ptoms or breathing difficulties if inhaled.		
Skin sensitization	May cause an allergic skin reactio	n.		
Germ cell mutagenicity	Due to partial or complete lack of	data the classification is not possible.		
Carcinogenicity	Due to partial or complete lack of	data the classification is not possible.		
	Evaluation of Carcinogenicity			
Not listed. OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-	1053)		
Not listed.	·			
US. National Toxicology Pro Not listed.	ogram (NTP) Report on Carcinoge	ns		
Reproductive toxicity	Due to partial or complete lack of	data 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 harm	nful.		
12. Ecological information	n			
Ecotoxicity		nvironmentally hazardous. However, this does not exclude the bills can have a harmful or damaging effect on the environment.		
Persistence and degradability	No data is available on the degrad	lability of any ingredients in the mixture.		
Bioaccumulative potential				
Partition coefficient n-octan 4,4'-Methylenedicyclohexyl dii		11		
Mobility in soil	No data available.			
Other adverse effects		ffects (e.g. ozone depletion, photochemical ozone creation obal warming potential) are expected from this component.		
13. Disposal consideratio	ns			
Disposal instructions		sealed containers at licensed waste disposal site. Dispose of with local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with all ap			
Hazardous waste code	The waste code should be assigned disposal company.	ed in discussion between the user, the producer and the waste		
Waste from residues / unused products	Dispose of in accordance with loc	al regulations. Empty containers or liners may retain some ind its container must be disposed of in a safe manner (see:		
Contaminated packaging		ain product residue, follow label warnings even after container is I be taken to an approved waste handling site for recycling or		

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	on			
US federal regulations	This product is a "Ha Standard, 29 CFR 19		efined by the OSHA Hazard Communication	'n
US EPCRA (SARA Title	III) Section 313 - Toxi	ic Chemical: De minimi	s concentration	
(CAS 5124-30-1)	lohexyl diisocyanate	% 1.0		
US EPCRA (SARA Title		ic Chemical: Listed sub	stance	
4,4'-Methylenedicyc (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	eauthorization Act of	1986 (SARA)		
SARA 302 Extremely hazar	dous substance			
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Acute toxicity (any ro Skin corrosion or irrit			
bategorieo	Serious eye damage	e or eye irritation		
	Respiratory or skin s		tod ovpoduro)	
	Specific larger organ	toxicity (single or repea	led exposure)	
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt	
4,4'-Methylenedicyclohe	yyl diicooyanato	5124-30-1	% by wt. 20 - 40	
	xyi ulisocyanale	5124-50-1	20 - 40	
Other federal regulations	a 110 Llanavdavia Aiv D			
Clean Air Act (CAA) Section	n 112 Hazardous Air P	oliutants (HAPS) List		
Not regulated. Clean Air Act (CAA) Section	n 112(r) Accidental Re	lease Prevention (40 C	FB 68 130)	
Not regulated.				
Safe Drinking Water Act	Contains component	t(s) regulated under the	Safe Drinking Water Act.	
(SDWA)				
US state regulations				
California Proposition 65	ala product con everan	you to obomicale includ	ng ELIDAN, which is known to the State of	
			ng FURAN, which is known to the State of go to www.P65Warnings.ca.gov.	
California Proposition	65 - CBT: Listed date/	Carcinogenic substand	e	

CRT: Listed date/Carcinogenic substance on 65

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 ir	ventory (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	05-21-2019
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

Product identifier	DEVCON® Flexane ® Fas	t Cure Liquid Cu	ring Agent
Other means of identification			
SKU#	0304		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer			
Company name	ITW Performance Polymers	6	
Address	30 Endicott Street		
	Danvers, MA 01923		
Telephone	United States Customer Service	978-777-1100	
Website	www.itwperformancepolyme		
E-mail	Not available.		
Contact person	EHS Department		
Emergency phone number	Chemtrec	800-424-9300	
	International	703-527-3887	
2. Hazard(s) identification	1		
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
	Acute toxicity, dermal		Category 4
	Serious eye damage/eye in	ritation	Category 2A
	Specific target organ toxicit exposure	y, repeated	Category 2
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Warning		
Hazard statement	6		skin. Causes serious eye irritation. May cause ated exposure.
Precautionary statement			
			setten hen diten. De wetent duiek en energie odere

Prevention	Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection. Wear protective gloves/protective clothing.
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Chemical name	Common name and synonyms	CAS number	%
Diethyltoluenediamine		68479-98-1	60 - 80
Hydrophobic Silicon Dioxide, Amorphous		67762-90-7	2.5 - 10
Oleic Acid		112-80-1	1 - 2.5
Titanium Dioxide	TITANIUM DIOXIDE	13463-67-7	1 - 2.5
Other components below reports	able levels		20 - 40

4. First-ald 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.
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. 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 symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
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.

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 is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe mist/vapors. Do not 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.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	Form
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 C	FR 1910.1000)		
Components	Туре	Value	Form
Titanium Dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Lim	iit Values		
Components	Туре	Value	
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
ological limit values	No biological exposure limits noted for	or the ingredient(s).	
propriate engineering ntrols	Good general ventilation should be u applicable, use process enclosures, maintain airborne levels below recon established, maintain airborne levels	local exhaust ventilation, or ot mended exposure limits. If ex	her engineering controls to posure limits have not been
ividual protection measure	es, such as personal protective equipm	ent	
Eye/face protection	Chemical respirator with organic vap	or cartridge and full facepiece	
Skin protection			
Hand protection	Wear appropriate chemical resistant gloves.		
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
neral hygiene nsiderations	Keep away from food and drink. Alwa washing after handling the material a work clothing and protective equipme	nd before eating, drinking, an	giene measures, such as d/or smoking. Routinely was

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Grey
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	1.06 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.06 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		
Iness, swelling, and blurred		

Information on toxicological effects

Acute toxicity

Harmful in contact with skin. Harmful if swallowed.

Components	Species	Test Results
Oleic Acid (CAS 112-80-1)		
<u>Acute</u>		
Dermal		
LD50	Guinea pig	> 3000 mg/kg
Oral		
LD50	Rat	74 g/kg
Skin corrosion/irritation	Due to partial or complete	lack of data the classification is not possible.
Serious eye damage/eye	Causes serious eye irritati	on.
irritation		
Respiratory or skin sensitizatio	n	
Respiratory sensitization	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	lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete	lack of data the classification is not possible.
IARC Monographs. Overall	Evaluation of Carcinogenic	sity
Titanium Dioxide (CAS 1 OSHA Specifically Regulate		2B Possibly carcinogenic to humans. 0.1001-1053)
Not listed.		
US. National Toxicology Pro	ogram (NTP) Report on Car	cinogens
Not listed.		
Reproductive toxicity	Due to partial or complete	lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete	lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	May cause damage to org	ans 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 repeated exposure.	be harmful. May cause damage to organs through prolonged or
12. Ecological informatio	n	
Ecotoxicity		ed as environmentally hazardous. However, this does not exclude the quent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the	e degradability of any ingredients in the mixture.
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects		nental effects (e.g. ozone depletion, photochemical ozone creation tion, global warming potential) are expected from this component.
13. Disposal consideration		
Disposal instructions	contents/container in acco	bose in sealed containers at licensed waste disposal site. Dispose of rdance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance wit	h all applicable regulations.
Hazardous waste code	disposal company.	e assigned in discussion between the user, the producer and the waste
Waste from residues / unused products		with local regulations. Empty containers or liners may retain some terial and its container must be disposed of in a safe manner (see:
Contaminated packaging		may retain product residue, follow label warnings even after container is s should be taken to an approved waste handling site for recycling or
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

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) Diethyltoluenediamine (CAS 68479-98-1) 1.0 % One-Time Export Notification only. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical **Classified hazard** Acute toxicity (any route of exposure) categories Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure) 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. Not regulated. Safe Drinking Water Act (SDWA) US state regulations **California Proposition 65** WARNING: This product can expose you to chemicals including Titanium Dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov. California Proposition 65 - CRT: Listed date/Carcinogenic substance Carbon Black (CAS 1333-86-4) Listed: February 21, 2003 Titanium Dioxide (CAS 13463-67-7) Listed: September 2, 2011 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) Titanium Dioxide (CAS 13463-67-7) International Inventories Country(s) or region Inventory name On inventory (yes/no)* Australia Australian Inventory of Chemical Substances (AICS) Yes Canada Domestic Substances List (DSL) Yes

Non-Domestic Substances List (NDSL)

Canada

No

Country(s) or region	Inventory name On invento	ry (yes/no)*		
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes		
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No		
Europe	European List of Notified Chemical Substances (ELINCS)	No		
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No		
Korea	Existing Chemicals List (ECL)	Yes		
New Zealand	New Zealand Inventory	Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes		
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes		
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes		
*A "Vac" indicates that all components of this product comply with the inventory requirements administered by the coverning country (a)				

*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	05-21-2019
Revision date	05-06-2020
Version #	03
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	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