# SAFETY DATA SHEET

# 1. Identification

1. Identification				
Product identifier	DEVCON® Flexane® 80 Putty Resin			
Other means of identification				
SKU#	0324			
Recommended use	Not available.	Not available.		
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier	/Distributor information			
Manufacturer				
Company name	ITW Performance Polymers			
Address	30 Endicott Street			
	Danvers, MA 01923 United States			
Telephone	Customer Service	978-777-1100		
Website	www.itwperformancepolymer	rs.com		
E-mail	Not available.			
Contact person	EHS Department			
Emergency phone number	Chemtrec International	800-424-9300 703-527-3887		
		100-021-0001		
2. Hazard(s) identification	1			
Physical hazards	Not classified.			
Health hazards	Acute toxicity, inhalation		Category 4	
	Skin corrosion/irritation		Category 2	
	Serious eye damage/eye irrit	ation	Category 2	
	Sensitization, respiratory		Category 1	
	Sensitization, skin		Category 1A	
	Carcinogenicity		Category 2	
	Specific target organ toxicity,	, single exposure	Category 3 respiratory tract irritation	
	Specific target organ toxicity, exposure	, repeated	Category 2	
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. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.			
Precautionary statement				
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. 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 protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation 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. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. 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.	
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	%
Polyether Polyol		N/A	60 - 80
4,4'-Methylenedicyclohexyl diisocyanate		5124-30-1	15 - 40
4,4'-methylenediphenyl Diisocyanate		101-68-8	1 - 5
Diphenylmethane Diisocyanate [isomers And Homologues]		9016-87-9	1 - 5
Methylenediphenyl Diisocyanate (mdi)		26447-40-5	1 - 5
Other components below reportable	Other components below reportable levels		1 - 2.5

## 4. First-aid measures

and precautions for firefighters

Fire fighting

Specific methods

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. If experiencing respiratory symptoms: Call a poison center or doctor/physician.
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. 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 exposed or concerned: Get medical advice/attention. 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. 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	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

equipment/instructions Use standard firefighting procedures and consider the hazards of other involved materials.

Move containers from fire area if you can do so without risk.

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	The product is immiscible with water and will spread on the water surface.	
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. 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. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
4,4'-methylenediphenyl Diisocyanate (CAS 101-68-8)	Ceiling	0.2 mg/m3	
		0.02 ppm	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	TWA	0.005 ppm	
4,4'-methylenediphenyl Diisocyanate (CAS 101-68-8)	TWA	0.005 ppm	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	Ceiling	0.11 mg/m3	
		0.01 ppm	
4,4'-methylenediphenyl Diisocyanate (CAS 101-68-8)	Ceiling	0.2 mg/m3	
		0.02 ppm	
	TWA	0.05 mg/m3	
		0.005 ppm	

Biological limit values	No biological exposure limits noted for the ingredient(s).	
Exposure guidelines		
US - Tennessee OELs: Skin	designation	
4,4'-Methylenedicyclohex (CAS 5124-30-1)	cyl diisocyanate Can 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 equipment	
Eye/face protection	Chemical respirator with organic vapor 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.	
<b>Respiratory protection</b>	Chemical respirator with organic vapor cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Observe any medical surveillance requirements. 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	Clear colorless or nearly colorless
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	347.0 °F (175.0 °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)	insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

Other information	
Density	1.04 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.04 estimated
VOC	0 g/l
10 Stability and reactiv	vitv

10. Stability and reactivit	ly .
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	Alcohols. Amines.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation	Harmful 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	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. 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	Harmful if inhaled.	
Components	Species	Test Results
4,4'-Methylenedicyclohexyl diisoc	yanate (CAS 5124-30-1)	
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Inhalation		
LC50	Rat	0.295 mg/l, 4 Hours
Oral		
LD50	Rat	1065 mg/kg
4,4'-methylenediphenyl Diisocyan	ate (CAS 101-68-8)	
<u>Acute</u>		
Inhalation		
LC50	Rat	0.369 mg/l, 4 Hours
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitizatio	n	
<b>Respiratory sensitization</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Suspected of causing cancer.	

IARC Monographs, Overall I	Evaluation of Carcinogenicity				
4,4'-methylenediphenyl Diisocyanate (CAS 101-68-8) 3 Not classifiable as to carcinogenicity to humans.					
Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9)		3 Not classifiable as to carcinogenicity to humans.			
	Methylenediphenyl Diisocyanate (mdi) (CAS 26447-40-5) 3 Not classifiable as to carcinogenicity to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)				
Not listed.					
US. National Toxicology Pro	ogram (NTP) Report on Carcin	ogens			
Not listed.					
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	May cause respiratory irritation	n.			
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.				
Aspiration hazard	Not an aspiration hazard.				
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.				
12. Ecological information	ı				
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.				
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.				
Bioaccumulative potential					
Partition coefficient n-octan 4,4'-Methylenedicyclohexyl dii		6.11			
Mobility in soil	No data available.				
Other adverse effects		tal effects (e.g. ozone depletion, photochemical ozone creation , global warming potential) are expected from this component.			
13. Disposal consideratio	ns				
Disposal instructions		in sealed containers at licensed waste disposal site. Dispose of nee with local/regional/national/international regulations.			
Local disposal regulations	Dispose in accordance with all applicable regulations.				
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.				
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).				
Contaminated packaging		retain product residue, follow label warnings even after container is ould be taken to an approved waste handling site for recycling or			

# 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.

US EPCRA (SARA Title I	II) Section 313 - Toxic	Chemical: De minimis	s concentration	
4,4'-Methylenedicyclo	•	% 1.0		
(CAS 5124-30-1)	ul Diineeyanata (CAC 1	04 00 0) 0/ 4 0		
	4,4'-methylenediphenyl Diisocyanate (CAS 101-68-8 Diphenylmethane Diisocyanate [isomers And			
Homologues] (CAS 90	016-87-9)			
US EPCRA (SARA Title I		Chemical: Listed sub	stance	
4,4'-Methylenedicyclo (CAS 5124-30-1)	hexyl diisocyanate	Listed.		
	yl Diisocyanate (CAS 1 ocyanate [isomers And 016-87-9)			
Toxic Substances Control Ac	ct (TSCA)			
TSCA Section 12(b) Expe	ort Notification (40 CF	R 707, Subpt. D)		
Not regulated.	·			
<b>TSCA Chemical Action P</b>	Plans, Chemicals of C	oncern		
4,4'-methylenediphen	yl Diisocyanate (CAS 1		phenyl Diisocyanate (MDI) And	Related Compounds
Homologues] (CAS 90		d Methylene Dir Action Plan [F	RIN 2070-ZA15] ohenyl Diisocyanate (MDI) And RIN 2070-ZA15]	
Methylenediphenyl Di (CAS 26447-40-5)	isocyanate (mdi)		bhenyl Diisocyanate (MDI) And RN 2070-ZA15]	Related Compounds
CERCLA Hazardous Substan	ice List (40 CFR 302.4	•)		
4,4'-methylenediphenyl Dii SARA 304 Emergency releas		i8-8) Listed.		
Not regulated. OSHA Specifically Regulated Not listed.	l Substances (29 CFR	1910.1001-1053)		
Superfund Amendments and Rea		986 (SARA)		
SARA 302 Extremely hazardo Not listed.	ous substance			
SARA 311/312 Hazardous chemical	Yes			
Classified hazard	Acute toxicity (any rou	ite of exposure)		
categories	Skin corrosion or irrita	tion		
	Serious eye damage Respiratory or skin se			
	Carcinogenicity	IISIIIZalion		
		oxicity (single or repeat	ed exposure)	
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
4,4'-Methylenedicyclohexy		5124-30-1	15 - 40	
4,4'-methylenediphenyl Di		101-68-8	1 - 5	
Diphenylmethane Diisocya Homologues]	anate [isomers And	9016-87-9	1 - 5	
Other federal regulations				
Clean Air Act (CAA) Section				
4,4'-methylenediphenyl Dii Clean Air Act (CAA) Section			FR 68.130)	
Not regulated.		-	-	
Safe Drinking Water Act (SDWA)	Contains component(	s) regulated under the S	afe Drinking Water Act.	
US state regulations				
California Proposition 65				
-	s product can expose v	ou to chemicals includir	ng FURAN, which is known to th	e State of
			o to www.P65Warnings.ca.gov.	
California Proposition 65		-		
Acetaldehyde (CAS 7	5-07-0)	Listed: April 1	, 1300	

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 Cons	umer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,
subd. (a))	

4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1) 4,4'-methylenediphenyl Diisocyanate (CAS 101-68-8) Diphenylmethane Diisocyanate [isomers And Homologues] (CAS 9016-87-9) Methylenediphenyl Diisocyanate (mdi) (CAS 26447-40-5)

### International Inventories

<b>Country(s) or region</b> Australia	Inventory name Australian Inventory of Chemical Substances (AICS)	<b>On inventory (yes/no)</b> * Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
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	04-25-2019
Revision date	07-08-2021
Version #	04
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® Flexane® 80 Putty Curing Agent		
Other means of identification			
SKU#	6920		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	r/Distributor information		
Manufacturer			
Company name	ITW Performance Polymers		
Address	30 Endicott Street		
	Danvers, MA 01923 United States		
Telephone	Customer Service 978-777-1100		
Website	www.itwperformancepolymers.com		
E-mail	Not available.		
Contact person	EHS Department		
Emergency phone number	Chemtrec 800-424-9300		
	International 703-527-3887		
2. Hazard(s) identification	n		
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral Category 4		
	Serious eye damage/eye irritation Category 2A		
	Specific target organ toxicity, repeated Category 2 exposure		
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Warning		
Hazard statement	Harmful if swallowed. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.		
Precautionary statement			
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.		
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention 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

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Diethyltoluenediamine		68479-98-1	30 - 60
Carbon Black		1333-86-4	1 - 5
Other components below repor	table levels		30 - 60
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	is develop or persist.	
Skin contact	Wash off with soap and water. Get medical at	ttention if irritation develops an	d persists.
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Get	or at least 15 minutes. Remove t medical attention if irritation d	contact lenses, if evelops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head lo Get medical advice/attention if you feel unwel	II.	
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 personnel are aware of the material(s) involve this safety data sheet to the doctor in attenda	ed, and take precautions to pro	
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	on dioxide (CO2).	
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 b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Fire fighting equipment/instructions	Move containers from fire area if you can do	so without risk.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.		
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release mea	isures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per appropriate protective equipment and clothing touch damaged containers or spilled material Ensure adequate ventilation. Local authorities contained. For personal protection, see section	g during clean-up. Do not brea unless wearing appropriate pr s should be advised if significa	he mist/vapors. Do no otective 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 en 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	Do not breathe mist/vapors. Do not taste or s eat, drink or smoke. Provide adequate ventila equipment. Wash hands thoroughly after han	tion. Wear appropriate person	al protective
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away f SDS).	• •	

Occupational exposure limits			
US. OSHA Table Z-1 Lim Components	its for Air Contaminants (29 CFR 1910.10 Type	000) Value	
Carbon Black (CAS 1333-86-4)	PEL	3.5 mg/m3	
US. ACGIH Threshold Liu Components	nit Values Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guid Components	e to Chemical Hazards Type	Value	
Carbon Black (CAS 1333-86-4)	TWA	0.1 mg/m3	
iological limit values	No biological exposure limits noted fo	r the ingredient(s).	
ppropriate engineering ontrols	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 evewash station.		
dividual protection measur	es, such as personal protective equipme	ent	
Eye/face protection	Chemical respirator with organic vapo	or cartridge and full facepiece	
Skin protection Hand protection	Wear appropriate chemical resistant g	ploves.	
Other	Wear suitable protective clothing. Use	Wear suitable protective clothing. Use of an impervious apron is recommended.	
<b>Respiratory protection</b>	Chemical respirator with organic vapo	Chemical respirator with organic vapor cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective of	lothing, when necessary.	
General hygiene onsiderations	Keep away from food and drink. Alwa washing after handling the material ar work clothing and protective equipment	nd before eating, drinking, an	

# 9. Physical and chemical properties

5. Thysical and chemical properties	
Appearance	Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Black.
Odor	Ammoniacal.
Odor threshold	Not available.
рН	7 - 8
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	200.0 °F (93.3 °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	< 1 mm Hg @ 70 F

Vanar danaitu	Not available.
Vapor density	
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	1.04 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.04 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	Avoid temperatures exceeding the decomposition temperature. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
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 effects

Acute toxicity	Harmful if swallowed.	
Components	Species	Test Results
Carbon Black (CAS 1333-86-4)		
<u>Acute</u>		
Oral		
LD50	Rat	> 8000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	n	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
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 carcinogenicity to humans.	

Not listed.       US. National Toxicology Program (NTP) Report on Carcinogens Carbon Black (CAS 1333-86-4)       Known To Be Human Carcinogen.         Reproductive toxicity       This product is not expected to cause reproductive or developmental effects.         Specific target organ toxicity - repeated exposure       Not classified.         Specific target organ toxicity - repeated exposure       May cause damage to organs through prolonged or repeated exposure.         Aspiration hazard       Not an aspiration hazard.         Chronic effects       May cause damage to organs through prolonged or repeated exposure.         12. Ecological information       The product is not classified as environmentally hazardous. However, this do possibility that large or frequent spills can have a harmful or damaging effect: No data available.         Mobility in soil       No data available.         Mobility in soil       No data available.         Other adverse effects       No other adverse environmental effects (e.g. ozone depletion, photochemical potential, endocrine disruption, global warming potential) are expected from the 13. Disposal considerations         Disposal instructions       Collect and reclaim or dispose in sealed containers at licensed waste disposa contents/container in accordance with local regulations.         Hazardous waste code       The waste code should be assigned in discussion between the user, the product is posal instructions).         Collect and reclaim or dispose in sealed containers must be disposed of in a saf Disposel in accordance wit	Carbon Black (CAS 1333 OSHA Specifically Regulate	-86-4) 2B Possibly carcinogenic to humans. d Substances (29 CFR 1910.1001-1053)
Carbon Black (CAS 1333-86-4)       Known To Be Human Carcinogen.         Reproductive toxicity       This product is not expected to cause reproductive or developmental effects.         Specific target organ toxicity - repeated exposure       May cause damage to organs through prolonged or repeated exposure.         Specific target organ toxicity - repeated exposure       May cause damage to organs through prolonged or repeated exposure.         Aspiration hazard       Not an aspiration hazard.         Chronic effects       May cause damage to organs through prolonged or repeated exposure.         12. Ecological information       The product is not classified as environmentally hazardous. However, this do possibility that large or frequent spills can have a harmful or damaging effect.         Persistence and degradability       No data available.         No data available.       No data available.         Mobility in soil       No data available.         Other adverse effects       No other adverse environmental effects (e.g. ozone depletion, photochemical potential, endocrine disruption, global warming potential) are expected from tt         13. Disposal considerations       Collect and reclaim or dispose in sealed containers at licensed waste dispose contents/container in accordance with local/regional/national/international reg         Local disposal regulations       The waste code should be assigned in discussion between the user, the product seidues. This material and its container must be disposed of in a saf         Dispose in		
Reproductive toxicity       This product is not expected to cause reproductive or developmental effects.         Specific target organ toxicity - single exposure       Not classified.         Specific target organ toxicity - repeated exposure       May cause damage to organs through prolonged or repeated exposure.         Aspiration hazard       Not an aspiration hazard.         Chronic effects       May cause damage to organs through prolonged or repeated exposure.         12. Ecological information       The product is not classified as environmentally hazardous. However, this dou possibility that large or frequent spills can have a harmful or damaging effect.         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 potential, endocrine disruption, global warming potential) are expected from the disposal contents/container in accordance with local/regional/national/international reg         Local disposal regulations       Collect and reclaim or dispose in sealed containers at licensed waste disposal company.         Waste from residues / unused product residues. This material and its container must be disposed of in a saf Disposal instructions).         Contaminated packaging       Since emptied containers may retain product residue, follow label warnings erempted. Empty containers shou		ogram (NTP) Report on Carcinogens
Specific target organ toxicity - single exposure       Not classified.         Specific target organ toxicity - repeated exposure       May cause damage to organs through prolonged or repeated exposure.         Aspiration hazard       Not an aspiration hazard.         Chronic effects       May cause damage to organs through prolonged or repeated exposure.         12. Ecological information       The product is not classified as environmentally hazardous. However, this doposibility that large or frequent spills can have a harmful or damaging effect.         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 potential, endocrine disruption, global warming potential) are expected from the some environter disruption, global warming potential) are expected from the some environter in accordance with local/regional/national/international reg         Local disposal regulations       Collect and reclaim or dispose in sealed containers at licensed waste dispose contents/container in accordance with local/regional/national/international reg         Maste from residues / unused product residues. This material and its container must be disposed of in a saf Dispose in in accordance with local regulations.         Maste from residues / unused product residues. This material and its container must be disposed of in a saf Disposeal in factorations).<	Carbon Black (CAS 1333	-86-4) Known To Be Human Carcinogen.
single exposure       May cause damage to organs through prolonged or repeated exposure.         Specific target organ toxicity - repeated exposure       May cause damage to organs through prolonged or repeated exposure.         Aspiration hazard       Not an aspiration hazard.         Chronic effects       May cause damage to organs through prolonged or repeated exposure.         12. Ecological information       The product is not classified as environmentally hazardous. However, this do possibility that large or frequent spills can have a harmful or damaging effect.         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 potential, endocrine disruption, global warming potential) are expected from the starts/container in accordance with local/regional/national/international regulations.         Local disposal regulations       Collect and reclaim or dispose in sealed containers at licensed waste disposal contents/container in accordance with local/regional/national/international regulations.         Hazardous waste code       Dispose of in accordance with local regulations. Empty containers or liners m product residues. This material and its container must be disposal of in a saf Disposal instructions).         Contaminated packaging       Since emptied containers may retain product residue, follow label warnings	Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
repeated exposure       Aspiration hazard       Not an aspiration hazard.         Aspiration hazard       May cause damage to organs through prolonged or repeated exposure.         12. Ecological information       Ecotoxicity       The product is not classified as environmentally hazardous. However, this dou possibility that large or frequent spills can have a harmful or damaging effect.         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 potential, endocrine disruption, global warming potential) are expected from the secondance with local/regional/national/international regulations         Disposal instructions       Collect and reclaim or dispose in sealed containers at licensed waste dispose contents/container in accordance with local/regional/national/international regulations.         Hazardous waste code       The waste code should be assigned in discussion between the user, the prod disposal company.         Waste from residues / unused products       Dispose of in accordance with local regulations. Empty containers or liners m product residues. This material and its container must be disposed of in a saf Disposal.         14. Transport information       Since emptied containers should be taken to an approved waste handling si disposal.		Not classified.
Chronic effects         May cause damage to organs through prolonged or repeated exposure.           12. Ecological information         The product is not classified as environmentally hazardous. However, this do possibility that large or frequent spills can have a harmful or damaging effect. No data is available on the degradability of any ingredients in the mixture. No data available. No data available.           Mobility in soil         No data available.           Other adverse effects         No ther adverse environmental effects (e.g. ozone depletion, photochemical potential, endocrine disruption, global warming potential) are expected from the container in accordance with local/regional/national/international regulations.           Disposal instructions         Collect and reclaim or dispose in sealed containers at licensed waste dispose contents/container in accordance with local/regional/national/international regulations.           Hazardous waste code         The waste code should be assigned in discussion between the user, the prodict isposal company.           Waste from residues / unused product residues / unused product residues / line adverse.         Since emptied containers may retain product residue, follow label warnings eremptied. Empty containers should be taken to an approved waste handling si disposal.           14. Transport information         Dispose		May cause damage to organs through prolonged or repeated exposure.
12. Ecological information         Ecotoxicity       The product is not classified as environmentally hazardous. However, this do possibility that large or frequent spills can have a harmful or damaging effect.         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 potential, endocrine disruption, global warming potential) are expected from the traditional potential, endocrine disruption, global warming potential) are expected from the traditional international regulations         Disposal instructions       Collect and reclaim or dispose in sealed containers at licensed waste dispose contents/container in accordance with local/regional/national/international regulations.         Hazardous waste code       The waste code should be assigned in discussion between the user, the product residues / unused product seldues. This material and its container must be disposed of in a saf Dispose in instructions).         Contaminated packaging       Since emptied containers may retain product residue, follow label warnings eremptied. Empty containers should be taken to an approved waste handling si disposal.         14. Transport information       Dot	Aspiration hazard	Not an aspiration hazard.
Ecotoxicity       The product is not classified as environmentally hazardous. However, this dor possibility that large or frequent spills can have a harmful or damaging effect.         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 potential, endocrine disruption, global warming potential) are expected from the disruption, global warming potential) are expected from the disposal instructions         Disposal instructions       Collect and reclaim or dispose in sealed containers at licensed waste disposa contents/container in accordance with local/regional/national/international reg         Hazardous waste code       The waste code should be assigned in discussion between the user, the product residues. This material and its container must be disposed of in a saf Disposal instructions).         Contaminated packaging       Since emptied containers may retain product residue, follow label warnings eremptied. Empty containers should be taken to an approved waste handling si disposal.         14. Transport information       Dot	Chronic effects	May cause damage to organs through prolonged or repeated exposure.
Persistence and degradability Bioaccumulative potential Mobility in soilNo data is available on the degradability of any ingredients in the mixture. No data available. No data available.Mobility in soilNo data available. No other adverse environmental effects (e.g. ozone depletion, photochemical potential, endocrine disruption, global warming potential) are expected from the Collect and reclaim or dispose in sealed containers at licensed waste disposa contents/container in accordance with local/regional/national/international reg Disposal regulationsHazardous waste code productsDispose of in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the product residues / unused product residues / unused productsDispose of in accordance with local regulations. Empty containers or liners m product residues. This material and its container must be disposed of in a saf Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings e emptied. Empty containers should be taken to an approved waste handling si disposal.14. Transport informationDot	12. Ecological information	1
Bioaccumulative potential       No data available.         Mobility in soil       No data available.         Other adverse effects       No other adverse environmental effects (e.g. ozone depletion, photochemical potential, endocrine disruption, global warming potential) are expected from the second disposal considerations         Disposal instructions       Collect and reclaim or dispose in sealed containers at licensed waste dispose contents/container in accordance with local/regional/national/international regulations.         Hazardous waste code       The waste code should be assigned in discussion between the user, the product residues / unused product residues / unused product second and the sec	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.
Mobility in soil       No data available.         Other adverse effects       No other adverse environmental effects (e.g. ozone depletion, photochemical potential, endocrine disruption, global warming potential) are expected from the second f	Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
Other adverse effects       No other adverse environmental effects (e.g. ozone depletion, photochemical potential, endocrine disruption, global warming potential) are expected from the second disposal considerations         13. Disposal considerations       Collect and reclaim or dispose in sealed containers at licensed waste disposal 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 prodidisposal company.         Waste from residues / unused products       Dispose of in accordance with local regulations. Empty containers or liners more product residues. This material and its container must be disposed of in a safe Disposal instructions).         Contaminated packaging       Since emptied containers may retain product residue, follow label warnings events in disposal.         14. Transport information       Dot	Bioaccumulative potential	No data available.
potential, endocrine disruption, global warming potential) are expected from the sequence of th	Mobility in soil	No data available.
Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposa contents/container in accordance with local/regional/national/international regLocal disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeThe waste code should be assigned in discussion between the user, the prod disposal company.Waste from residues / unused productsDispose of in accordance with local regulations. Empty containers or liners m product residues. This material and its container must be disposed of in a saf Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings er emptied. Empty containers should be taken to an approved waste handling si disposal.14. Transport informationDot	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.
Local disposal regulationsContents/container in accordance with local/regional/national/international regulationsHazardous waste codeDispose in accordance with all applicable regulations.Waste from residues / unused productsThe waste code should be assigned in discussion between the user, the product residues. This material and its container must be disposed of in a safe Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings eremptied. Empty containers should be taken to an approved waste handling si disposal.14. Transport informationDot	13. Disposal consideratio	ns
Hazardous waste code       The waste code should be assigned in discussion between the user, the products         Waste from residues / unused products       Dispose of in accordance with local regulations. Empty containers or liners more product residues. This material and its container must be disposed of in a safe Disposal instructions).         Contaminated packaging       Since emptied containers may retain product residue, follow label warnings event disposal.         14. Transport information       Dot	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.
Waste from residues / unused products       Dispose of in accordance with local regulations. Empty containers or liners maproduct residues. This material and its container must be disposed of in a safe Disposal instructions).         Contaminated packaging       Since emptied containers may retain product residue, follow label warnings evemptied. Empty containers should be taken to an approved waste handling si disposal.         14. Transport information       Dot	Local disposal regulations	Dispose in accordance with all applicable regulations.
products       product residues. This material and its container must be disposed of in a safe Disposal instructions).         Contaminated packaging       Since emptied containers may retain product residue, follow label warnings evented. Empty containers should be taken to an approved waste handling si disposal.         14. Transport information       DOT	Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
emptied. Empty containers should be taken to an approved waste handling si disposal.  14. Transport information DOT		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).
DOT	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.	Not regulated as dangerous g	oods.

#### 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

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.

## SARA 304 Emergency release notification

Not regulated.

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 route of exposure) 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) Sectior	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.	Net regulated	
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
California Proposition 65		
	is product can expose you to Carbon Black, which is known to the Stancer. For more information go to www.P65Warnings.ca.gov.	ate of California to cause
California Proposition 6	65 - CRT: Listed date/Carcinogenic substance	
subd. (a))	te Chemicals List. Safer Consumer Products Regulations (Cal. C	ode Regs, tit. 22, 69502.3,
Carbon Black (CAS Diethyltoluenediamir	1333-86-4) ne (CAS 68479-98-1)	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no) <sup>;</sup>
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)	Yes
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
		Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*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	04-25-2019	
Revision date	07-08-2021	
Version #	03	

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	Hazard(s) identification: Hazard(s) not otherwise classified (HNOC) Composition/information on ingredients: Component information First-aid measures: Skin contact Fire-fighting measures: Special protective equipment and precautions for firefighters Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Precautions for safe handling Handling and storage: Conditions for safe storage, including any incompatibilities Exposure controls/personal protection: Appropriate engineering controls Stability and reactivity: Conditions to avoid Stability and reactivity: Chemical stability Regulatory information: US federal regulations Other information, including date of preparation or last revision: References Other information, including date of preparation or last revision: Further information Other information, including date of preparation or last revision: List of abbreviations