# 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	ITW Performance Polymers		
Address	30 Endicott Street		
	Danvers, MA 01923 United States		
Telephone	Customer Service 978-777-	1100	
Website	www.itwperformancepolymers.com	1100	
E-mail	Not available.		
Contact person	EHS Department		
Emergency phone number	Chemtrec 800-424-		
	International 703-527-	3887	
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, inhalation	Category 2	
	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 ex		
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Laber elements			
Signal word	Danger		
Hazard statement	Causes skin irritation. May cause an al	lergic skin reaction. Causes serious eye irritation. Fatal if	
	inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause		
	respiratory irritation.		
Precautionary statement			
Prevention	Do not breathe vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves. Wear respiratory protection.		
Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.		
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		

None known.

None.

Supplemental information

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Polyol		N/A	60 - 80
4,4'-Methylenedicyclohexyl diisocyanate		5124-30-1	20 - 40
Other components below reportable levels			1 - 2.5

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 i 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/pers	sonal protection		
Occupational exposure limits			
	the only constituents of the product whe ents have no known exposure limits.	nich have a PEL, TLV or other recommended exposure limit.	
US. ACGIH Threshold Limit			
Components	Туре	Value	
4,4'-Methylenedicyclohexyl diisocyanate (CAS 5124-30-1)	TWA	0.005 ppm	
US. NIOSH: Pocket Guide to Components	Chemical Hazards Recommended E Type	Exposure Limits (REL) 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 for	or the ingredient(s).	
Exposure guidelines			
US - Tennessee OELs: Skin	designation		
4,4'-Methylenedicyclohex (CAS 5124-30-1)	xyl 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 equipm		
Eye/face protection	Chemical respirator with organic vapo	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.	
<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	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.		

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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.

Evaporation rateNot available.Flammability (solid, gas)Not applicable.Upper/lower flammability or explosive limit - lower (%)Not available.Explosive limit - lower (%)Not available.Explosive limit - upper (%)Not available.Vapor pressure0.00002 hPa estimatedVapor densityNot available.Relative densityNot available.Solubility(ies)Not available.Solubility(water)Not available.Partition coefficient (n-octanol/water)Not available.Auto-ignition temperatureNot available.ViscosityNot available.Not available.Not available.ViscosityNot available.	Flash point	392.0 °F (200.0 °C) estimated
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Specific gravity 1.04 estimated	Flammability class	Combustible IIIB estimated
	Oxidizing properties	Not oxidizing.
VOC 0.000007 % estimated	Specific gravity	1.04 estimated
	VOC	0.000007 % 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	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	Causes serious eye irritatio	Causes serious eye irritation.	
Ingestion	Expected to be a low inges	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	vision. May cause respirate	vere eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred on. May cause respiratory irritation. Coughing. Difficulty in breathing. Skin irritation. May cause ness and pain. May cause an allergic skin reaction. Dermatitis. Rash.	
Information on toxicological effects			
Acute toxicity	Fatal if inhaled.		
Components	Species	Test Results	

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

	LC50	Rat	0.295 mg/l, 4 Hours
	Inhalation		
	LD50	Rabbit	> 10000 mg/kg
	Dermal		
	<u>Acute</u>		
,4'-Meti	hylenedicyclohexyl diisocyan	ate (CAS 5124-30-1)	

Components	Species	Test Results
Oral		
LD50	Rat	1065 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	May cause allergy or asthma	symptoms or breathing difficulties if inhaled.
Skin sensitization	May cause an allergic skin re	paction.
Germ cell mutagenicity	mutagenic or genotoxic.	product or any components present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcino	genicity to humans.
IARC Monographs. Overall	Evaluation of Carcinogenicity	,
Not listed.	d Cubatanaaa (20 CED 4040 )	
Not listed.	ed Substances (29 CFR 1910. <sup>7</sup>	1001-1053)
	ogram (NTP) Report on Carci	nogens
Reproductive toxicity	This product is not expected	to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological informatio	n	
Ecotoxicity		as environmentally hazardous. However, this does not exclude the ent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the d	egradability of any ingredients in the mixture.
Bioaccumulative potential		
Mobility in soil	No data available.	
Other adverse effects		ntal effects (e.g. ozone depletion, photochemical ozone creation n, global warming potential) are expected from this component.
13. Disposal consideration	ons	
Disposal instructions		e in sealed containers at licensed waste disposal site. Dispose of ance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with a	all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	
14. Transport information		

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

Sta US EPCRA (SARA Title III) S 4,4'-Methylenedicyclohex (CAS 5124-30-1) US EPCRA (SARA Title III) S 4,4'-Methylenedicyclohex (CAS 5124-30-1) US EPCRA (SARA Title III) S 4,4'-Methylenedicyclohex (CAS 5124-30-1) Toxic Substances Control Act (T TSCA Section 12(b) Export I Not regulated. CERCLA Hazardous Substance Not listed. SARA 304 Emergency release no Not regulated. OSHA Specifically Regulated Su Not listed. Uperfund Amendments and Reauth SARA 302 Extremely hazardous Not listed. SARA 311/312 Hazardous Ye chemical Classified hazard Ac categories Sk Se Re Sp SARA 313 (TRI reporting) Chemical name 4,4'-Methylenedicyclohexyl dii	andard, 29 CFR 191 Section 313 - Toxic yl diisocyanate Section 313 - Toxic yl diisocyanate Section 313 - Toxic yl diisocyanate FSCA) Notification (40 CFR List (40 CFR 302.4) otification abstances (29 CFR horization Act of 19 substance	0.1200. Chemical: De minim Substance is the purposes Chemical: Reportabl LBS 25000 Chemical: Listed sul Listed. R 707, Subpt. D) 1910.1001-1053) 86 (SARA)	not eligible for the de minimis exemption except of supplier notification requirements. % 1.0 le threshold
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chemical Classified hazard Ac categories Sk Se Re Sp SARA 313 (TRI reporting) Chemical name 4,4'-Methylenedicyclohexyl dii	ute toxicity (any rou	te of exposure)	
categories Sk Se Re Sp SARA 313 (TRI reporting) Chemical name 4,4'-Methylenedicyclohexyl dii		te of exposure)	
Chemical name 4,4'-Methylenedicyclohexyl dii	rious eye damage o spiratory or skin ser ecific target organ to	r eye irritation	ited exposure)
4,4'-Methylenedicyclohexyl dii			
		CAS number	% by wt.
	socyanate	5124-30-1	20 - 40
her federal regulations			
Clean Air Act (CAA) Section 112	Hazardous Air Po	llutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Section 112	(r) Accidental Rele	ase Prevention (40 C	CFR 68.130)
Not regulated.			
Safe Drinking Water Act Co (SDWA)	ntains component(s	) regulated under the	Safe Drinking Water Act.
S state regulations			
US. California. Candidate Chemi (a))	cals List. Safer Co	nsumer Products Re	egulations (Cal. Code Regs, tit. 22, 69502.3, su
4,4'-Methylenedicyclohexyl dii	socyanate (CAS 51	24-30-1)	
California Proposition 65			
			ing FURAN, which is known to the State of go to www.P65Warnings.ca.gov.
California Proposition 65 - C Acetaldehyde (CAS 75-0		arcinogenic substand Listed: April	

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

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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	07-30-2023
Version #	07
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.