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## **SECTION 1. IDENTIFICATION**

Product name	:	SikaForce <sup>®</sup> -7780 Part B
Other means of identification	:	No data available
Company name	:	www.sika.ca Canada Pointe-Claire, QC H9R 4A9 601, avenue Delmar Sika Canada Inc.
Telephone	:	(514) 697-2610 / 1 (800) 933-7452
Telefax	:	(514) 694-2792
E-mail address	:	ehs@ca.sika.com
Emergency telephone	:	CANUTEC (collect) (613) 996-6666 (24 hours)
Recommended use of the chemical and restrictions on use	:	For further information, refer to product data sheet.

## **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the Hazardous Products Regulations

Acute toxicity (Inhalation)	:	Category 4
Skin irritation	:	Category 2
Eye irritation	:	Category 2B
Respiratory sensitization	:	Category 1
Skin sensitization	:	Category 1
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)
Specific target organ toxicity - repeated exposure (Inhala- tion)	:	Category 2
GHS label elements		
Hazard pictograms	:	

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Signal Word	: Danger
Hazard Statements	<ul> <li>H315 + H320 Causes skin and eye irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H332 Harmful if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing culties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure if inhaled.</li> </ul>
Precautionary Statements	Prevention:
	<ul> <li>P260 Do not breathe mist or vapors.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P272 Contaminated work clothing should not be allowed out the workplace.</li> <li>P280 Wear protective gloves.</li> <li>P284 In case of inadequate ventilation wear respiratory protection.</li> </ul>
	<ul> <li>Response:</li> <li>P302 + P352 IF ON SKIN: Wash with plenty of water.</li> <li>P304 + P340 + P312 IF INHALED: Remove person to fresh and keep comfortable for breathing. Call a POISON CENTE doctor if you feel unwell.</li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with wate for several minutes. Remove contact lenses, if present and e to do. Continue rinsing.</li> <li>P333 + P313 If skin irritation or rash occurs: Get medical adviattention.</li> <li>P337 + P313 If eye irritation persists: Get medical advice/ at tion.</li> <li>P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.</li> <li>P362 + P364 Take off contaminated clothing and wash it bet reuse.</li> </ul>
	Storage:
	P403 + P233 Store in a well-ventilated place. Keep containe tightly closed. P405 Store locked up.
	Disposal:
	P501 Dispose of contents/ container to an approved waste or posal plant.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

#### Other hazards

None known.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Components

Chemical name	CAS-No.	Classification	Concentra- tion (% w/w)
4,4'-methylenediphenyl diisocyanate	101-68-8	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 30 - < 60
Diphenylmethanediisocyanate, iso- meres and homologues	9016-87-9	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 30 - < 60
Aromatic Polyisocyanate- Prepolymer	150449-03-9	Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 10 - < 30
o-(p-isocyanatobenzyl)phenyl isocy- anate	5873-54-1	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 1 - < 5
4,4`-Methylenediphenyl diisocya- nate, oligomers	25686-28-6	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Eye Irrit. 2A; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 0.1 - < 1

Actual concentration or concentration range is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice	Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in a ance.	ttend-
If inhaled	Move to fresh air. Consult a physician after significant exposure.	

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In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	:	irritant effects sensitizing effects Asthmatic appearance Cough Respiratory disorder Allergic reactions Headache Causes skin and eye irritation. May cause an allergic skin reaction. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure if inhaled.
Notes to physician	:	Treat symptomatically.

## **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Deny access to unprotected persons.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system.



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	If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	<ul> <li>Avoid formation of aerosol.</li> <li>Avoid exceeding the given occupational exposure limits (see section 8).</li> <li>Do not get in eyes, on skin, or on clothing.</li> <li>For personal protection see section 8.</li> <li>Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms.</li> <li>Follow standard hygiene measures when handling chemical products.</li> </ul>
Conditions for safe storage	:	Store in original container. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
4,4'-methylenediphenyl diiso- cyanate	101-68-8	TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		TWA	0.005 ppm	CA ON OEL
		С	0.02 ppm	CA ON OEL
		TWAEV	0.005 ppm	CA QC OEL
			0.051 mg/m3	
		TWA	0.005 ppm	ACGIH
Diphenylmethanediisocyanate,	9016-87-9	TWA	0.005 ppm	CA AB OEL

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isomeres and homologues			0.07 mg/m3	
Ŭ		TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		TWAEV	0.005 ppm	CA QC OEL
			0.051 mg/m3	
Aromatic Polyisocyanate- Prepolymer	150449-03-9	TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		TWA	0.005 ppm	CA ON OEL
		С	0.02 ppm	CA ON OEL
		TWA	0.005 ppm	CA AB OEL
			0.05 mg/m3	
		TWAEV	0.005 ppm	CA QC OEL
			0.051 mg/m3	
		TWA	0.005 ppm	ACGIH
4,4`-Methylenediphenyl diiso- cyanate, oligomers	25686-28-6	TWA	0.005 ppm	CA BC OEL
		TWA	0.005 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		С	0.01 ppm	CA BC OEL
		TWA	0.005 ppm	CA ON OEL
		С	0.02 ppm	CA ON OEL
		TWA	0.005 ppm	CA AB OEL
			0.05 mg/m3	
		TWAEV	0.005 ppm	CA QC OEL
			0.051 mg/m3	
		TWA	0.005 ppm	ACGIH

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

#### Personal protective equipment

Respiratory protection	:	Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk as- sessment indicates this is necessary.
		The filter class for the respirator must be suitable for the max- imum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when han- dling the product. If this concentration is exceeded, self- contained breathing apparatus must be used.
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	:	Safety eyewear complying with an approved standard should

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		be used when a risk assessment indicates this is necessary.
Skin and body protection	:	Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	black
Odor	:	slight
Odor Threshold	:	No data available
рН	:	No data available
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	ca. 101 °C (214 °F) (Method: closed cup)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	0.01 hpa
Relative vapor density	:	No data available
Density	:	ca. 1.23 g/ml (20 °C (68 °F))

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Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	ca. 569 mm2/s
Explosive properties	:	No data available
Oxidizing properties	:	No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reac- tions	:	Stable under recommended storage conditions.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

# SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity Harmful if inhaled. <u>Components:</u>	
4,4'-methylenediphenyl di	isocyanate:
Acute oral toxicity	: LD50 Oral (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment
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Diphenylmethanediisocyanate, isomeres and homologues:				
Acute oral toxi	city	:	LD50 Oral (Rat): > 10,000 mg/kg	
Acute inhalatic	on toxicity	:	LC50: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment Assessment: The component/mixtur short term inhalation.	e is moderately toxic after
Acute dermal t	toxicity	:	LD50 Dermal (Rabbit): > 9,400 mg/k	¢g
4,4`-Methylen	ediphenyl diiso	су	anate, oligomers:	
Acute oral toxi		-	LD50 Oral (Rat): > 5,000 mg/kg	
Acute inhalatic	on toxicity	:	LC50: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment	
Acute dermal t	toxicity	:	LD50 Dermal (Rabbit): > 9,400 mg/k	kg
Skin corrosio Causes skin in	ritation.	- 4 -		
Causes eye irr	lamage/eye irrita ritation.	atio	on	
Respiratory or skin sensitization				
<b>Skin sensitiza</b> May cause an	ation allergic skin read	ctio	n.	
Respiratory s	Respiratory sensitization			
May cause alle	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
Germ cell mu Not classified l	<b>tagenicity</b> based on availab	le	information.	
Carcinogenicity				
Not classified based on available information.IARCGroup 2B: Possibly carcinogenic to humans Carbon black, amorphous1333-86-4				
OSHA	Not applicable			
NTP	Not applicable			
<b>_</b>				

# **Reproductive toxicity**

Not classified based on available information.

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#### STOT-single exposure

May cause respiratory irritation.

#### **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure if inhaled. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

#### Aspiration toxicity

Not classified based on available information.

#### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity

#### Components:

# Diphenylmethanediisocyanate, isomeres and homologues: Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l Exposure time: 96 h

# Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): > 1,640 mg/l

#### Persistence and degradability

No data available

#### **Bioaccumulative potential**

No data available

#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

#### Additional ecological information : Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods		
Waste from residues	:	Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal.



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#### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulations**

IATA-DGR Not regulated as a dangerous good

## IMDG-Code Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**Domestic regulation** 

#### TDG

Not regulated as a dangerous good

## **SECTION 15. REGULATORY INFORMATION**

#### **Canadian lists**

No substances are subject to a Significant New Activity Notification.

## **SECTION 16. OTHER INFORMATION**

Full text of other abbreviatio	ns	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / C		ceiling limit
CA ON OEL / C		Ceiling Limit (C)
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWAEV	:	Time-weighted average exposure value
ADR	:	Accord européen relatif au transport international des marchandises Dangereuses par Route
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association

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IMDG LD50	International Maritime Code for Dangerous Goods Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted no effect concentration
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg- istration, Evaluation, Authorisation and Restriction of Chemi- cals (REACH), establishing a European Chemicals Agency
SVHC	Substances of Very High Concern
vPvB	Very persistent and very bioaccumulative

#### Notice to Reader:

The information contained in this Material Safety Data Sheet applies only to the actual Sika Canada product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Material Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed.

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