Revision Date 11/22/2022



### **SECTION 1. IDENTIFICATION**

Product name	:	SikaForce <sup>®</sup> -7780 L12 CA Part B
Other means of identification	:	No data available
Company name	:	601, avenue Delmar Canada Pointe-Claire, QC H9R 4A9 Sika Canada Inc. www.sika.ca
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	:	
Signal Word	:	Danger

1/12

Revision Date 11/22/2022



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 difficulties 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	<ul> <li>Prevention:</li> <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 of 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 air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.</li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P337 + P313 If eye irritation persists: Get medical advice/ attention.</li> <li>P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.</li> <li>P362 + P364 Take off contaminated clothing and wash it before reuse.</li> </ul>
	<b>Storage:</b> P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
	<b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.
Additional Labeling	

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

### Other hazards

None known.

Revision Date 11/22/2022



### 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	Co	ove out of dangerous area. Insult a physician. ow this material safety data sheet to the doctor in attend- ce.
If inhaled		ove to fresh air. nsult a physician after significant exposure.

Revision Date 11/22/2022



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.



Revision	Date	11/22/2022
1101011	Date	

	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	<ul> <li>Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).</li> <li>Keep in suitable, closed containers for disposal.</li> </ul>

### 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

Revision Date 11/22/2022



icomerce and hemologues	1	1	$0.07 \text{ mg/m}^2$	I
isomeres and homologues		<b>T</b> \A/A	0.07 mg/m3	
		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
Герогушег		С	0.01 nnm	CA BC OEL
		TWA	0.01 ppm	
			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

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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 be used when a risk assessment indicates this is necessary.

Revision Date 11/22/2022



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	:	No data available
point 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))
Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-	:	No data available

Revision Date 11/22/2022



octanol/water 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.

### Components:

### 4,4'-methylenediphenyl diisocyanate:

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

### Diphenylmethanediisocyanate, isomeres and homologues:

Acute oral toxicity	:	LD50 Oral (Rat): > 10,000 mg/kg
Acute inhalation toxicity	:	LC50: 1.5 mg/l Exposure time: 4 h

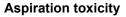
Revision Date 11/22/2022



		Test atmosphere: dust/mist Method: Expert judgment Assessment: The component/mixtu short term inhalation.	re is moderately toxic after			
Acute dermal t	oxicity :	LD50 Dermal (Rabbit): > 9,400 mg/	kg			
4,4`-Methylen	ediphenyl diisocy	/anate, oligomers:				
Acute oral toxi						
Acute inhalatio	on toxicity :	LC50: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment				
Acute dermal t	oxicity :	LD50 Dermal (Rabbit): > 9,400 mg/	kg			
<b>Skin corrosio</b> Causes skin in						
<b>Serious eye d</b> Causes eye irr	amage/eye irritat itation.	ion				
Respiratory o	r skin sensitizatio	on				
Skin sensitization						
May cause an allergic skin reaction.						
Respiratory sensitization						
May cause allergy or asthma symptoms or breathing difficulties if inhaled.						
	Germ cell mutagenicity					
	based on available	Information.				
Carcinogenic	•	. <b></b>				
IARC	Not classified based on available information.IARCGroup 2B: Possibly carcinogenic to humans Carbon black, amorphous1333-86-4					
OSHA	HA Not applicable					
NTP	NTP Not applicable					
<b>Reproductive toxicity</b> Not classified based on available information.						
STOT-single exposure						
May cause res	May cause respiratory irritation.					
STOT-repeated exposure						
May cause damage to organs through prolonged or repeated exposure if inhaled.						

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.

### Revision Date 11/22/2022



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 plants	:	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 infor-	:	Do not empty into drains; dispose of this material and its con-
mation		tainer 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.

### SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

IATA-DGR Not regulated as a dangerous good



Revision Date 11/22/2022



### 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 abbreviations

ACGIH CA AB OEL CA BC OEL CA ON OEL	<ul> <li>USA. ACGIH Threshold Limit Values (TLV)</li> <li>Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)</li> <li>Canada. British Columbia OEL</li> <li>Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.</li> </ul>		
CA QC OEL	<ul> <li>Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants</li> </ul>		
ACGIH / TWA CA AB OEL / TWA	<ul> <li>8-hour, time-weighted average</li> <li>8-hour Occupational exposure limit</li> </ul>		
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 CA QC OEL / TWAEV	: Time-Weighted Average Limit (TWA) : Time-weighted average exposure value		
ADR	Accord européen relatif au transport international des		
	marchandises Dangereuses par Route		
CAS	Chemical Abstracts Service		
DNEL EC50	Derived no-effect level Half maximal effective concentration		
GHS	Globally Harmonized System		
IATA	International Air Transport Association		
IMDG	International Maritime Code for Dangerous Goods		
LD50	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)		
11/12			

Revision Date 11/22/2022



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 vPvB		Substances of Very High Concern Very persistent and very bioaccumulative

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