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SECTION 1. IDENTIFICATION

Product name Sikalastic®-736 AL Lo-VOC

Other means of identification: No data available

Company name www.sika.ca

Canada

Pointe-Claire, QC H9R 4A9

601, avenue Delmar Sika Canada Inc.

(514) 697-2610 / 1 (800) 933-7452 Telephone

Telefax (514) 694-2792

E-mail address ehs@ca.sika.com

CANUTEC (collect) (613) 996-6666 (24 hours) Emergency telephone

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

Flammable liquids Category 3

Acute toxicity (Inhalation) Category 4

Respiratory sensitization Category 1

Skin sensitization Category 1

Germ cell mutagenicity Category 1B

Carcinogenicity (Inhalation) Category 1A

Carcinogenicity Category 1B

Specific target organ toxicity

- single exposure

Category 3 (Respiratory system)

Specific target organ toxicity : Category 1 (Lungs)

- repeated exposure

GHS label elements



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Hazard pictograms







Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

H335 May cause respiratory irritation. H340 May cause genetic defects.

H350 May cause cancer.

H350 May cause cancer by inhalation.

H372 Causes damage to organs (Lungs) through prolonged or

repeated exposure.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equip-

ment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe mist or vapors.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

P284 In case of inadequate ventilation wear respiratory protec-

tion.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/



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attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

P362 + P364 Take off contaminated clothing and wash it before reuse

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentra-
			tion (% w/w)
Isophorondiisocyanate homopoly-	53880-05-0	Acute Tox. 4; H332	>= 60 - < 80
mer		Skin Sens. 1B; H317	
		STOT SE 3; H335	
Quartz (SiO2) >5µm	14808-60-7	Carc. 1A; H350	>= 10 - < 30
, , ,		STOT RE 1; H372	
		STOT SE 3; H335	
4-chloro-α,α,α-trifluorotoluene	98-56-6	Flam. Liq. 3; H226	>= 5 - < 10
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		Skin Sens. 1B; H317	
		STOT SE 3; H335	
Solvent naphtha (petroleum), light	64742-95-6	Muta. 1B; H340	>= 5 - < 10
arom.		Carc. 1B; H350	
		Asp. Tox. 1; H304	
n-butyl acetate	123-86-4	Flam. Liq. 3; H226	>= 1 - < 5
		STOT SÉ 3; H336	
3-isocyanatomethyl-3,5,5-	4098-71-9	Acute Tox. 1; H330	>= 0.1 - < 1
trimethylcyclohexyl isocyanate		Skin Corr. 1C; H314	
		Eye Dam. 1; H318	
		Resp. Sens. 1; H334	



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Skin Sens. 1; H317 STOT SE 3; H335

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 attend-

ance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

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

Asthmatic appearance

Cough

Respiratory disorder Allergic reactions Headache irritant effects sensitizing effects

carcinogenic effects

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 genetic defects.

May cause cancer.

May cause cancer by inhalation.

Causes damage to organs through prolonged or repeated

exposure.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES



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Alcohol-resistant foam Suitable extinguishing media

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Water

High volume water jet

Specific hazards during fire

fighting

Do not use a solid water stream as it may scatter and spread

fire.

Further information Use water spray to cool unopened containers.

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.

for fire-fighters

Special protective equipment : 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.

Remove all sources of ignition.

Deny access to unprotected persons.

Beware of vapors accumulating to form explosive concentra-

tions. Vapors can accumulate in low areas.

Environmental precautions Prevent product from entering drains.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, ver-

miculite) and place in container for disposal according to local / national regulations (see section 13).

Advice on protection against

SECTION 7. HANDLING AND STORAGE

fire and explosion

Use explosion-proof equipment.

Keep away from heat/ sparks/ open flames/ hot surfaces. No

smoking.

Take precautionary measures against electrostatic discharg-

es.

Advice on safe handling Avoid formation of aerosol.

Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).



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Do not get in eyes, on skin, or on clothing.

For personal protection see section 8.

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.

Smoking, eating and drinking should be prohibited in the application area.

Take precautionary measures against static discharge. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Prevent unauthorized access.

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.

Materials to avoid : Explosives

Oxidizing agents Poisonous gases Poisonous liquids

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO2) >5μm	14808-60-7	TWA (Res- pirable par- ticulates)	0.025 mg/m3	CA AB OEL
		TWA (Respirable fraction)	0.1 mg/m3	CA ON OEL
		TWAEV (respirable dust)	0.1 mg/m3	CA QC OEL
		TWA (Respirable)	0.025 mg/m3 (Silica)	CA BC OEL
		TWA (Respirable)	0.025 mg/m3	CA BC OEL
		TWA (Res- pirable)	0.025 mg/m3 (Silica)	CA BC OEL



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ı	I	L TWA (Dec	10005/0	1 400111
		TWA (Res-	0.025 mg/m3	ACGIH
		pirable par-		
		ticulate mat-		
		ter)	0.00= / 0	10000
		TWA (Res-	0.025 mg/m3	ACGIH
		pirable par-	(Silica)	
		ticulate mat-		
		ter)	0.00= / 0	10000
		TWA (Res-	0.025 mg/m3	ACGIH
		pirable par-		
		ticulate mat-		
		ter)		
		TWA (Res-	0.025 mg/m3	ACGIH
		pirable par-	(Silica)	
		ticulate mat-		
		ter)		
n-butyl acetate	123-86-4	TWA	150 ppm	CA AB OEL
			713 mg/m3	
		STEL	200 ppm	CA AB OEL
			950 mg/m3	
		TWAEV	50 ppm	CA QC OEL
		STEV	150 ppm	CA QC OEL
		TWA	50 ppm	CA BC OEL
		STEL	150 ppm	CA BC OEL
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
3-isocyanatomethyl-3,5,5-	4098-71-9	TWA	0.005 ppm	CA AB OEL
trimethylcyclohexyl isocyanate			0.05 mg/m3	
		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
			0.045 mg/m3	

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.

The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive 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 assessment indicates this is necessary.

The filter class for the respirator must be suitable for the max-



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imum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling 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 nec-

essary.

Eye protection : Safety eyewear complying with an approved standard should

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 respiratory and skin/eye protection only after vapors

have been cleared from the area.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : various

Odor : aromatic

Odor Threshold : No data available

pH : Not applicable

Melting point/range / Freezing :

point

No data available

Boiling point/boiling range : 120 °C (248 °F)

Flash point : 43 °C (109 °F)

Evaporation rate : No data available



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Flammability (solid, gas) No data available

Upper explosion limit / Upper :

flammability limit

Upper flammability limit

7 %(V)

Lower explosion limit / Lower : Lower flammability limit

flammability limit

1 %(V)

Vapor pressure 7.066066 hpa

Relative vapor density No data available

Density 1.20 g/cm3

Solubility(ies)

Water solubility insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature 415 °C

Decomposition temperature No data available

Viscosity

Viscosity, dynamic No data available

> 20.5 mm2/sViscosity, kinematic

Explosive properties No data available

Oxidizing properties No data available

Volatile organic compounds

(VOC) content

92 g/l

87 g/l

Sikalastic®-736 AL Lo-VOC + Sikalastic®-700 ACL combined

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. Vapors may form explosive mixture with air.

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according to the Hazardous Products Regulations



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Conditions to avoid : Heat, flames and sparks.

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:

Isophorondiisocyanate homopolymer:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

4-chloro-α,α,α-trifluorotoluene:

Acute oral toxicity : LD50 Oral (Rat): > 13,000 mg/kg

n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:

Acute oral toxicity : LD50 Oral (Rat): 4,814 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.031 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): > 7,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.



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Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

May cause cancer by inhalation.

IARC Group 1: Carcinogenic to humans

Quartz (SiO2) >5µm 14808-60-7

(Silica dust, crystalline)

Group 2B: Possibly carcinogenic to humans

Titanium dioxide 13463-67-7

Group 2B: Possibly carcinogenic to humans

4-chloro- α , α , α -trifluorotoluene 98-56-6

OSHA OSHA specifically regulated carcinogen

Quartz (SiO2) >5µm 14808-60-7

(crystalline silica)

NTP Known to be human carcinogen

Quartz (SiO2) >5µm 14808-60-7

(Silica, Crystalline (Respirable Size))

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Quartz (14808-60-7): This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Isophorondiisocyanate homopolymer:

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

4-chloro- α , α , α -trifluorotoluene:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 3 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 2 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.41

Exposure time: 72 h

n-butyl acetate:

Toxicity to algae/aquatic

plants

: EC50 (Desmodesmus subspicatus (green algae)): 647.7 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-

mation

Do not empty into drains; dispose of this material and its con-

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

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according to the Hazardous Products Regulations



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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

UN/ID No. : UN 1263
Proper shipping name : Paint
Class : 3
Packing group : III

Labels : Flammable Liquids

Packing instruction (cargo : 366

aircraft)

Packing instruction (passen:

ger aircraft)

355

IMDG-Code

UN number : UN 1263 Proper shipping name : PAINT

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

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

Not applicable for product as supplied.

Domestic regulation

TDG

UN number : UN 1263 Proper shipping name : PAINT

Class : 3
Packing group : III
Labels : 3
ERG Code : 128
Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.



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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 USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

: Canada. British Columbia OEL CA BC 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 ACGIH / STEL Short-term exposure limit

CA AB OEL / TWA 8-hour Occupational exposure limit CA AB OEL / STEL 15-minute occupational exposure limit

8-hour time weighted average CA BC OEL / TWA short-term exposure limit CA BC OEL / STEL

CA BC OEL / C ceiling limit Ceiling Limit (C) CA ON OEL / C

Time-Weighted Average Limit (TWA) CA ON OEL / TWA CA QC OEL / TWAEV Time-weighted average exposure value

CA QC OEL / STEV Short-term exposure value

ADR Accord européen relatif au transport international des

marchandises Dangereuses par Route

CAS Chemical Abstracts Service Derived no-effect level DNEL

Half maximal effective concentration EC50

GHS Globally Harmonized System International Air Transport Association IATA

International Maritime Code for Dangerous Goods **IMDG**

Median lethal dosis (the amount of a material, given all at LD50

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



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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 Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency

SVHC : Substances of Very High Concern

vPvB : Very persistent and very bioaccumulative

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Prepared by : R & D of Sika Canada Inc.

Material number : 189,341

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