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### **SECTION 1. IDENTIFICATION**

Product name : Sikadur®-673 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

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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 corrosion : Category 1B

Serious eye damage : Category 1

Skin sensitization : Sub-category 1A

Reproductive toxicity : Category 1B

Specific target organ toxicity

- repeated exposure

Category 1

**GHS** label elements

Hazard pictograms







Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.



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H332 Harmful if inhaled.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs 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.

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.

### Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 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.

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

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

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

### Storage:

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



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# Components

Chemical name	CAS-No.	Classification	Concentra-
Dalaman dana diamina	0040400	Oldin Com 40: 11044	tion (% w/w)
Polyoxypropylene diamine	9046-10-0	Skin Corr. 1C; H314	>= 60 - < 80
O min annuin A stathadamin a	440.04.0	Eye Dam. 1; H318	5 40
2-piperazin-1-ylethylamine	140-31-8	Acute Tox. 3; H311	>= 5 - < 10
		Skin Corr. 1B; H314 Eye Dam. 1; H318	
		Skin Sens. 1; H317	
		Repr. 2; H361	
		STOT RE 1; H372	
2,2'-iminodiethylamine	111-40-0	Acute Tox. 4; H302	>= 5 - < 10
	111-40-0	Acute Tox. 4, 11302	>= 5 - < 10
		Acute Tox. 4; H312	
		Skin Corr. 1B; H314	
		Skin Sens. 1; H317	
		STOT SE 3; H335	
Fatty acids, tall-oil, reaction products	68953-36-6	Skin Corr. 1C; H314	>= 5 - < 10
with tetraethylenepentamine		Skin Sens. 1A; H317	
triethylenetetramine	112-24-3	Acute Tox. 4; H302	>= 1 - < 5
, ,		Acute Tox. 4; H312	
		Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	
[3-(2,3-	2530-83-8	Eye Dam. 1; H318	>= 1 - < 5
epoxypro-			
poxy)propyl]trimethoxysilane			
Phenol, 4-nonyl, branched	84852-15-3	Acute Tox. 4; H302	>= 1 - < 5
		Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Repr. 2; H361	
oxirane, mono[(C12-14-	68609-97-2	Skin Irrit. 2; H315	>= 1 - < 5
alkyloxy)methyl]derivatives		Skin Sens. 1; H317	
4,4'-isopropylidenediphenol	80-05-7	Eye Dam. 1; H318	>= 1 - < 5
		Skin Sens. 1; H317	
		Repr. 1B; H360	
	440.57.0	STOT SE 3; H335	0.4
3,6,9-	112-57-2	Acute Tox. 4; H302	>= 0.1 - < 1
triazaundecamethylenediamine		Acute Tox. 4; H312	
		Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	

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.



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If inhaled Move to fresh air.

Consult a physician after significant exposure.

Take off contaminated clothing and shoes immediately. In case of skin contact

Wash off with soap and plenty of water.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul-

ty.

In case of eye contact Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

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.

Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

Health injuries may be delayed.

corrosive effects sensitizing effects

toxic effects for reproduction

Respiratory disorder Allergic reactions

Headache Dermatitis

May cause an allergic skin reaction. Causes serious eye damage.

Harmful if inhaled.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated

exposure.

Causes severe burns.

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.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.



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### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

tive equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment.

Deny access to unprotected persons.

**Environmental precautions** Do not flush into surface water or sanitary sewer system.

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 Avoid exceeding the given occupational exposure limits (see

section 8).

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 ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Pregnant women or women of child-bearing age should not be

exposed to this product.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage Store in original container.

Keep container tightly closed in a dry and 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 Dangerous when wet Flammable solids Organic peroxides



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Poisonous liquids

Spontaneously Combustible Substances

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,2'-iminodiethylamine	111-40-0	TWA	1 ppm 4.2 mg/m3	CA AB OEL
		TWA	1 ppm	CA BC OEL
		TWAEV	1 ppm 4.2 mg/m3	CA QC OEL
		TWA	1 ppm	ACGIH
triethylenetetramine	112-24-3	TWA	0.5 ppm 3 mg/m3	CA ON OEL

**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 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 contaminated clothing and protective equipment



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before entering eating areas. Wash thoroughly after handling.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : amber

Odor : ammoniacal

Odor Threshold : No data available

pH : not determined

Melting point/range / Freezing :

point

No data available

Boiling point/boiling range : No data available

Flash point : ca. 130 °C (266 °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 : 0.1 hpa

Relative vapor density : No data available

Density : 0.968 g/ml (23 °C (73 °F))

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

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Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : not determined

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:**

### 2-piperazin-1-ylethylamine:

Acute oral toxicity : LD50 Oral (Rat): 2,097 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): ca. 866 mg/kg

2,2'-iminodiethylamine:

Acute oral toxicity : LD50 Oral (Rat): 1,553 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.071 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): 1,045 mg/kg

triethylenetetramine:

Acute oral toxicity : LD50 Oral (Rat): 1,716 mg/kg



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Acute dermal toxicity : LD50 Dermal (Rabbit): 1,465 mg/kg

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Acute oral toxicity : LD50 Oral (Rat): 7,010 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit): 4,248 mg/kg

Phenol, 4-nonyl, branched:

Acute oral toxicity : LD50 Oral (Rat): 1,412 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 3,160 mg/kg

3,6,9-triazaundecamethylenediamine:

Acute oral toxicity : LD50 Oral (Rat): 1,716.2 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat): 1,260 mg/kg

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

Not applicable

OSHA Not applicable

Not applicable

NTP Not applicable

Not applicable



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# Reproductive toxicity

May damage fertility or the unborn child.

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Causes damage to organs 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.

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

### **Ecotoxicity**

### **Components:**

# 2-piperazin-1-ylethylamine:

Toxicity to fish : LC50 (Fish): > 100 mg/l

Exposure time: 96 h

### Fatty acids, tall-oil, reaction products with tetraethylenepentamine:

triethylenetetramine:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia): 10 - 100 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 10 -

100 mg/l

Exposure time: 72 h

### [3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to fish LC50 (Cyprinus carpio (Carp)): 55 mg/l

Exposure time: 96 h

### Phenol, 4-nonyl, branched:

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available



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#### 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.

Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

May be harmful to the environment if released in large quanti-

ties.

Water polluting material.

### **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** 

UN/ID No. UN 2735

Proper shipping name Polyamines, liquid, corrosive, n.o.s.

(Polyoxypropylenediamine (polymer))

Class 8 Packing group Ш

Corrosive Labels Packing instruction (cargo 855

aircraft)

Packing instruction (passen-

851

ger aircraft)

**IMDG-Code** 

**UN** number UN 2735

POLYAMINES, LIQUID, CORROSIVE, N.O.S. Proper shipping name

(Polyoxypropylenediamine (polymer))

Class 8 Packing group Ш Labels 8 EmS Code F-A, S-B Marine pollutant yes

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

Not applicable for product as supplied.



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### **Domestic regulation**

**TDG** 

UN number : UN 2735

Proper shipping name : POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(Polyoxypropylenediamine (polymer))

Class : 8
Packing group : II
Labels : 8
ERG Code : 153
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.

#### **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)

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 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

IMDG : International Maritime Code for Dangerous Goods
LD50 : Median lethal dosis (the amount of a material, given all at



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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 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 : 459,296

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