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#### **SECTION 1. IDENTIFICATION**

Product name	:	Hardener MC-40
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 (Oral)	:	Category 4
Acute toxicity (Dermal)	:	Category 4
Skin corrosion	:	Category 1
Serious eye damage	:	Category 1
Skin sensitization	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H302 + H312 Harmful if swallowed or in contact with H314 Causes severe skin burns and eye damage.

in contact with skin.





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	H317 May cause a	n allergic skin reaction.					
Precautionary Statements	· Prevention:						
	P264 Wash skin th P270 Do not eat, o P272 Contaminate the workplace. P280 Wear protec	<ul> <li>P261 Avoid breathing mist or vapors.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P272 Contaminated work clothing should not be allowed out of the workplace.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</li> </ul>					
	Response:						
	CENTER/ doctor in P301 + P330 + P3 induce vomiting. P303 + P361 + P3 all contaminated c P304 + P340 + P3 and keep comforta CENTER/ doctor. P305 + P351 + P3 water for several n and easy to do. Co CENTER/ doctor. P333 + P313 If ski attention.	<ul> <li>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</li> <li>P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.</li> <li>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.</li> <li>P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P362 + P364 Take off contaminated clothing and wash it before</li> </ul>					
	Storage:	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 conce	ntration >= 1%.				
Other hazards							
None known.							
CTION 3. COMPOSITION/INFO	ORMATION ON INGRE	DIENTS					
Substance / Mixture	: Mixture						
Components							
Chemical name	CAS-No.	Classification	Concentra-				



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			tion (% w/w)
triethylenetetramine	112-24-3	Acute Tox. 4; H302	>= 80 - <=
		Acute Tox. 4; H312	100
		Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	
Adduct TTA (Epoxy Amine Adduct)	38294-69-8	Acute Tox. 4; H302	>= 10 - < 30
		Skin Corr. 1; 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.
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. 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	:	Gastrointestinal discomfort Allergic reactions Dermatitis Skin disorders Health injuries may be delayed. corrosive effects sensitizing effects Harmful if swallowed or in contact with skin.



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	May cause an allergic skin reaction. Causes serious eye damage. Causes severe burns.	
Notes to physician :	Treat symptomatically.	
SECTION 5. FIRE-FIGHTING MEASU	JRES	
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 RELEAS	E 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.	

# If the product contaminates rivers and lakes or drains inform respective authorities. Local authorities should be advised if significant spillages cannot be contained.

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

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	Smoking, eating and drinking should be prohibited in the ap- plication area. Follow standard hygiene measures when handling chemical products.
Conditions for safe storage	<ul> <li>Store in original container.</li> <li>Keep container tightly closed in a dry and well-ventilated place.</li> <li>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Observe label precautions.</li> <li>Store in accordance with local regulations.</li> </ul>
Materials to avoid	: Explosives Oxidizing agents Poisonous gases Dangerous when wet Flammable solids Organic peroxides Poisonous liquids Spontaneously Combustible Substances

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

				<b>_</b>
Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
triethylenetetramine	112-24-3	TWA	0.5 ppm	CA ON OEL
			3 mg/m3	
Engineering measures	worker expos product gene cess enclosu	ure to airborne c rates dust, fumes res, local exhaus o keep worker ex	nould be sufficient to o ontaminants. If the us s, gas, vapor or mist, it ventilation or other o posure below any red	se of this use pro- engineer-
Personal protective equipme	ent			
Respiratory protection	: Use a properly fitted NIOSH approved air-purifying or respirator complying with an approved standard if a ris sessment indicates this is necessary.			
	imum expected (gas/vapor/aed) dling the proc	ed contaminant c erosol/particulate	s) that may arise whe ntration is exceeded,	en han-



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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.
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	:	amber
Odor	:	amine-like
Odor Threshold	:	No data available
рН	:	not determined
Melting point/ range / Freez- ing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	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



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Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	0.01 hpa
Relative vapor density	:	No data available
Density	:	1.000 g/ml (23 °C (73 °F))
Solubility(ies) Water solubility	:	partly soluble
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	:	> 20.5 mm2/s ( 40 °C (104 °F))
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Volatile organic compounds (VOC) content	:	Not applicable

### 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.



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#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed or in contact with skin.

#### **Components:**

#### triethylenetetramine:

Acute oral toxicity	:	LD50 Oral (Rat): 1,716 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 1,465 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 due to lack of data.

#### Germ cell mutagenicity

Not classified due to lack of data.

#### Carcinogenicity

Not classified due to lack of data. IARC Not applicable

**OSHA** Not applicable

NTP Not applicable

#### **Reproductive toxicity**

Not classified due to lack of data.

#### STOT-single exposure

Not classified due to lack of data.

#### STOT-repeated exposure

Not classified due to lack of data. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

#### Aspiration toxicity

Not classified due to lack of data.

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#### SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### **Components:**

#### triethylenetetramine:

Toxicity to fish :	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other : aquatic invertebrates	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
Persistence and degradability No data available	
<b>Bioaccumulative potential</b> 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.
mation	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	at all times comply with	t, solutions and any by-products should the requirements of environmental isposal legislation and any regional nents.
Contaminated packaging	Empty containers shou	ld be taken to an approved waste han-



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dling site for recycling or disposal.

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

#### International Regulations

IATA-DGR UN/ID No.		UN 3267
Proper shipping name	:	Corrosive liquid, basic, organic, n.o.s. (3,6-diazaoctanethylenediamin)
Class	:	8
Packing group	:	III
Labels	:	Corrosive
Packing instruction (cargo aircraft)	:	856
Packing instruction (passen- ger aircraft)	:	852
IMDG-Code		
UN number	:	UN 3267
Proper shipping name	:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3,6-diazaoctanethylenediamin)
Class	:	8
Packing group	:	III
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.

#### **Domestic regulation**

TDG		
UN number	:	UN 3267
Proper shipping name	:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
		(3,6-diazaoctanethylenediamin)
Class	:	8
Packing group	:	III
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.



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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 abbreviation	ons	
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
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 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





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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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