

# SAFETY DATA SHEET

## Sikagard® Cor-Pro-470 Part A



Version  
1.3

Revision Date:  
12/06/2016

SDS Number:  
10000004241

### SECTION 1. IDENTIFICATION

Product name : Sikagard® Cor-Pro-470 Part A

#### Manufacturer or supplier's details

Company name : Sika Canada Inc.  
601, avenue Delmar  
Pointe-Claire, QC H9R 4A9  
Canada  
www.sika.ca

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

Telefax : (514) 694-2792

Health and Safety Services's  
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

Flammable liquids : Category 2

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

Precautionary Statements : **Prevention:**  
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/ equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.

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P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

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

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

**Storage:**

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

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**Supplemental information**

If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous ingredients**

| Chemical name                            | CAS-No.    | Concentration (% w/w) |
|--|------------|-----------------------|
| bisphenol-A-(epichlorhydrin) epoxy resin | 25068-38-6 | >= 10 - < 30          |
| xylene                                   | 1330-20-7  | >= 5 - < 10           |
| 4-methylpentan-2-one                     | 108-10-1   | >= 5 - < 10           |
| 2-butoxyethanol                          | 111-76-2   | >= 5 - < 10           |

**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 attendance.
- If inhaled : Move to fresh air.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.
- 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.
- Most important symptoms : No known significant effects or hazards.

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and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Notes to physician

: Treat symptomatically.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
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.

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

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Deny access to unprotected persons.  
Beware of vapors accumulating to form explosive concentrations. 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, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.

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- Advice on safe handling : Do not breathe vapors or spray mist.  
Avoid exceeding the given occupational exposure limits (see section 8).  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharge.  
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 : Store in original container.  
Store in cool place.  
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

| Ingredients          | CAS-No.    | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis     |
|----------------------|------------|----------------------------------|--|-----------|
| titanium dioxide     | 13463-67-7 | TWA                              | 10 mg/m <sup>3</sup>                           | CA AB OEL |
|                      |            | TWA                              | 10 mg/m <sup>3</sup>                           | CA BC OEL |
|                      |            | TWAEV (total dust)               | 10 mg/m <sup>3</sup>                           | CA QC OEL |
|                      |            | TWA                              | 10 mg/m <sup>3</sup><br>(Titanium dioxide)     | ACGIH     |
| xylene               | 1330-20-7  | TWA                              | 100 ppm<br>434 mg/m <sup>3</sup>               | CA AB OEL |
|                      |            | STEL                             | 150 ppm<br>651 mg/m <sup>3</sup>               | CA AB OEL |
|                      |            | TWAEV                            | 100 ppm<br>434 mg/m <sup>3</sup>               | CA QC OEL |
|                      |            | STEV                             | 150 ppm<br>651 mg/m <sup>3</sup>               | CA QC OEL |
|                      |            | TWA                              | 100 ppm  | CA BC OEL |
|                      |            | STEL                             | 150 ppm  | CA BC OEL |
|                      |            | TWA                              | 100 ppm  | ACGIH     |
|                      |            | STEL                             | 150 ppm  | ACGIH     |
| 4-methylpentan-2-one | 108-10-1   | TWA                              | 50 ppm<br>205 mg/m <sup>3</sup>                | CA AB OEL |
|                      |            | STEL                             | 75 ppm<br>307 mg/m <sup>3</sup>                | CA AB OEL |
|                      |            | TWA                              | 20 ppm   | CA BC OEL |
|                      |            | STEL                             | 75 ppm   | CA BC OEL |
|                      |            | TWAEV                            | 50 ppm   | CA QC OEL |

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|                 |          |       |                                 |           |
|-----------------|----------|-------|---------------------------------|-----------|
|                 |          |       | 205 mg/m <sup>3</sup>           |           |
|                 |          | STEV  | 75 ppm<br>307 mg/m <sup>3</sup> | CA QC OEL |
|                 |          | TWA   | 20 ppm                          | ACGIH     |
|                 |          | STEL  | 75 ppm                          | ACGIH     |
| 2-butoxyethanol | 111-76-2 | TWA   | 20 ppm<br>97 mg/m <sup>3</sup>  | CA AB OEL |
|                 |          | TWA   | 20 ppm                          | CA BC OEL |
|                 |          | TWAEV | 20 ppm<br>97 mg/m <sup>3</sup>  | CA QC OEL |
|                 |          | TWA   | 20 ppm                          | ACGIH     |

**Biological occupational exposure limits**

| Ingredients          | CAS-No.   | Control parameters                              | Biological specimen | Sam-pling time   | Permissible concentra-tion | Basis        |
|----------------------|-----------|---|---------------------|--|----------------------------|--------------|
| xylene               | 1330-20-7 | Methylhip-puric acids                           | Urine               | End of shift (As soon as possible after exposure ceases) | 1.5 g/g cre-atinine        | ACGIH<br>BEI |
| 4-methylpentan-2-one | 108-10-1  | methyl iso-butyl ketone                         | Urine               | End of shift (As soon as possible after exposure ceases) | 1 mg/l                     | ACGIH<br>BEI |
| 2-butoxyethanol      | 111-76-2  | Butoxyace-tic acid (BAA)                        | Urine               | End of shift (As soon as possible after exposure ceases) | 200 mg/g Creatinine        | ACGIH<br>BEI |
| ethylbenzene         | 100-41-4  | Sum of mandelic acid and phenyl gly-oxalic acid | Urine               | End of shift (As soon as possible after exposure ceases) | 0.15 g/g creatinine        | ACGIH<br>BEI |

**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.

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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 assessment indicates this is necessary.
- The filter class for the respirator must be suitable for the maximum 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**
- Remarks** : 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 concentration and amount of dangerous substances, and to the specific 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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance** : liquid
- Color** : various
- Odor** : epoxy-like
- 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. 21 °C (70 °F)  
Method: closed cup

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|  |                                     |
|--|-------------------------------------|
| Evaporation rate                       | : No data available                 |
| Flammability (solid, gas)              | : No data available                 |
| Upper explosion limit                  | : No data available                 |
| Lower explosion limit                  | : No data available                 |
| Vapor pressure                         | : No data available                 |
| Relative vapor density                 | : No data available                 |
| Density                                | : 1.490 g/ml (23 °C (73 °F) ( ))    |
| Solubility(ies)                        |                                     |
| Water solubility                       | : insoluble                         |
| 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 mm <sup>2</sup> /s (40 °C) |
| Explosive properties                   | : No data available                 |
| Molecular weight                       | : No data available                 |

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### 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 reactions | : Vapors may form explosive mixture with air.<br>Stable under recommended storage conditions. |
| Conditions to avoid                | : Heat, flames and sparks.  |
| Incompatible materials             | : No data available   |

No decomposition if stored and applied as directed.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

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Not classified based on available information.

### **Ingredients:**

#### **4-methylpentan-2-one:**

Acute oral toxicity : LD50 Oral (Rat): 2,080 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 16,000 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: Not classified based on available information.

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** Group 2B: Possibly carcinogenic to humans

titanium dioxide 13463-67-7

4-methylpentan-2-one 108-10-1

ethylbenzene 100-41-4

**NTP** Not applicable

### **Reproductive toxicity**

Not classified based on available information.

### **STOT-single exposure**

Not classified based on available information.

### **STOT-repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

No data available

### **Persistence and degradability**

No data available



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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 handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION****Domestic regulation****TDG (road/train)**

UN number : UN 1139  
Proper shipping name : COATING SOLUTION

Class : 3  
Packing group : II  
Labels : 3

**International Regulations****IATA-DGR**

UN/ID No. : UN 1139  
Proper shipping name : Coating solution  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

**IMDG-Code**

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UN number : UN 1139  
Proper shipping name : COATING SOLUTION

Class : 3  
Packing group : II  
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.

## SECTION 15. REGULATORY INFORMATION

### Canadian lists

No substances are subject to a Significant New Activity Notification.

## SECTION 16. OTHER INFORMATION

Revision Date : 12/06/2016  
Prepared by : R & D of Sika Canada Inc.

### 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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All sales of Sika products are subject to its current terms and conditions of sale available at [www.sika.ca](http://www.sika.ca) or 514-697-2610.

### Full text of other abbreviations

|      |   |
|------|---|
| 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 dose (the amount of a material, given all at once, which                    |

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|        |   |
|--------|---|
| LC50   | causes the death of 50% (one half) of a group of test animals)  |
| MARPOL | Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)<br>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  |

CA / Z8

# SAFETY DATA SHEET

## Sikagard® Cor-Pro-470 Part B



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### SECTION 1. IDENTIFICATION

Product name : Sikagard® Cor-Pro-470 Part B

#### Manufacturer or supplier's details

Company name : Sika Canada Inc.  
601, avenue Delmar  
Pointe-Claire, QC H9R 4A9  
Canada  
www.sika.ca

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

Telefax : (514) 694-2792

Health and Safety Services's  
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

Flammable liquids : Category 3  
Skin corrosion : Category 1C  
Serious eye damage : Category 1  
Skin sensitization : Sub-category 1A  
Specific target organ system-  
ic toxicity - repeated expo-  
sure (Inhalation) : Category 2 (hearing organs)  
Aspiration hazard : Category 1

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

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- Hazard Statements** : H226 Flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.
- Precautionary Statements** : **Prevention:**  
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/ equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
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.  
P314 Get medical advice/ attention if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
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 + 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.
- Warning** : Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful

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or fatal.

**Other hazards**

None known.

**Supplemental information**

If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous ingredients**

| Chemical name   | CAS-No.    | Concentration (% w/w) |
|---|------------|-----------------------|
| Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines | 68410-23-1 | >= 60 - <= 70         |
| xylene  | 1330-20-7  | >= 10 - < 20          |
| 2,4,6-tris(dimethylaminomethyl)phenol   | 90-72-2    | >= 10 - < 20          |
| bis(dimethylamino)methylphenol  | 71074-89-0 | >= 2 - < 5            |
| triethylenetetramine  | 112-24-3   | >= 0 - < 1            |

**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 attendance.
- 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 difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue 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.

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|   |  |
|---|--|
| Most important symptoms and effects, both acute and delayed | : Health injuries may be delayed.<br>Risk of serious damage to the lungs (by aspiration).<br>corrosive effects<br>sensitizing effects<br>Aspiration may cause pulmonary edema and pneumonitis.<br>Allergic reactions<br>Dermatitis<br>See Section 11 for more detailed information on health effects and symptoms.<br>May be fatal if swallowed and enters airways.<br>May cause an allergic skin reaction.<br>Causes serious eye damage.<br>May cause damage to organs through prolonged or repeated exposure if inhaled.<br>Causes severe burns. |
| Notes to physician  | : Treat symptomatically.   |

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**SECTION 5. FIRE-FIGHTING MEASURES**

|  |   |
|--|---|
| Suitable extinguishing media                   | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical   |
| Unsuitable extinguishing media                 | : Water   |
| Further information                            | : Use water spray to cool unopened containers.<br>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>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.  |

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

|   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Remove all sources of ignition.<br>Deny access to unprotected persons.<br>Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |
| Environmental precautions   | : Prevent product from entering drains.<br>If the product contaminates rivers and lakes or drains inform respective authorities.<br>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-   |

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

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.
- Advice on safe handling : Do not breathe vapors or spray mist. 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 application area. Take precautionary measures against static discharge. 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 : 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.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Ingredients with workplace control parameters**

| Ingredients | CAS-No.   | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis     |
|-------------|-----------|-------------------------------|--|-----------|
| xylene      | 1330-20-7 | TWA                           | 100 ppm<br>434 mg/m <sup>3</sup>               | CA AB OEL |
|             |           | STEL                          | 150 ppm<br>651 mg/m <sup>3</sup>               | CA AB OEL |
|             |           | TWAEV                         | 100 ppm<br>434 mg/m <sup>3</sup>               | CA QC OEL |
|             |           | STEV                          | 150 ppm<br>651 mg/m <sup>3</sup>               | CA QC OEL |
|             |           | TWA                           | 100 ppm  | CA BC OEL |
|             |           | STEL                          | 150 ppm  | CA BC OEL |
|             |           | TWA                           | 100 ppm  | ACGIH     |



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|                      |          |      |                    |           |
|----------------------|----------|------|--------------------|-----------|
|                      |          | STEL | 150 ppm            | ACGIH     |
| triethylenetetramine | 112-24-3 | TWA  | 0.5 ppm<br>3 mg/m3 | CA ON OEL |

**Biological occupational exposure limits**

| Ingredients | CAS-No.   | Control parameters    | Biological specimen | Sam-pling time   | Permissible concentra-tion | Basis     |
|-------------|-----------|-----------------------|---------------------|--|----------------------------|-----------|
| xylene      | 1330-20-7 | Methylhip-puric acids | Urine               | End of shift (As soon as possible after exposure ceases) | 1.5 g/g cre-atinine        | ACGIH BEI |

**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 maximum 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**

**Remarks** : 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 concentration and amount of dangerous substances, and to the specific 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

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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                                  | : amber                               |
| Odor                                   | : aromatic, amine-like                |
| 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                            | : 27 °C (81 °F)<br>Method: closed cup |
| Evaporation rate                       | : No data available                   |
| Flammability (solid, gas)              | : No data available                   |
| Upper explosion limit                  | : 7 %(V)                              |
| Lower explosion limit                  | : 1 %(V)                              |
| Vapor pressure                         | : 7.9993 hpa (6.000 mmHg)             |
| Relative vapor density                 | : No data available                   |
| Density                                | : 0.942 g/ml (23 °C (73 °F) (l))      |
| Solubility(ies)                        |                                       |
| Water solubility                       | : not determined                      |
| Partition coefficient: n-octanol/water | : No data available                   |
| Autoignition temperature               | : No data available                   |
| Decomposition temperature              | : No data available                   |
| Viscosity, dynamic                     | : No data available                   |
| Viscosity, dynamic                     | : No data available                   |

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Explosive properties : No data available  
Molecular weight : No data available

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**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 reactions : Stable under recommended storage conditions.  
Vapors may form explosive mixture with air.  
Conditions to avoid : Heat, flames and sparks.  
Incompatible materials : No data available  
No decomposition if stored and applied as directed.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Product:**

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Ingredients:****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 based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

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Not classified based on available information.

**IARC** Not applicable**NTP** Not applicable**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines:**Toxicity to fish (Chronic toxicity) : LC50 (Oncorhynchus mykiss (rainbow trout)): 1 - 10 mg/l  
Exposure time: 96 d**2,4,6-tris(dimethylaminomethyl)phenol:**Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): > 10  
- 100 mg/l  
Exposure time: 72 h**triethylenetetramine:**Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 10 - 100 mg/l  
Exposure time: 48 hToxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 10 -  
100 mg/l  
Exposure time: 72 h**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

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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 handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION****Domestic regulation****TDG (road/train)**

UN number : UN 1139  
Proper shipping name : COATING SOLUTION

Class : 3  
Packing group : III  
Labels : 3

**International Regulations****IATA-DGR**

UN/ID No. : UN 1139  
Proper shipping name : Coating solution  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

**IMDG-Code**

UN number : UN 1139  
Proper shipping name : COATING SOLUTION

Class : 3  
Packing group : III  
Labels : 3

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Marine pollutant : no**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**SECTION 15. REGULATORY INFORMATION****Canadian lists**

No substances are subject to a Significant New Activity Notification.

**SECTION 16. OTHER INFORMATION**Revision Date : 12/15/2016  
Prepared by : R & D of Sika Canada Inc.Notice to Reader:

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**Full text of other abbreviations**

|        |   |
|--------|---|
| 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 dose (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   |

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|       |  |
|-------|--|
| 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   |

CA / Z8