



**SECTION 1. IDENTIFICATION**

Product name : ECT-CF FC Part B

Other means of identification : No data available

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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.

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**SECTION 2. HAZARDS IDENTIFICATION**

**GHS classification in accordance with the Hazardous Products Regulations**

Flammable liquids : Category 3

Acute toxicity (Oral) : 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 : H226 Flammable liquid and vapor.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 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.  
 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 mist or vapors.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
 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.  
 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.

**Additional Labeling**

There are no ingredients with unknown acute toxicity used in a mixture at a concentration  $\geq 1\%$ .

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Components**

| Chemical name                  | CAS-No.    | Classification                                                                                                               | Concentration (% w/w) |
|--------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Phenol, 4-nonyl, branched      | 84852-15-3 | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Repr. 2; H361                                               | $\geq 10 - < 30$      |
| 2-piperazin-1-ylethylamine     | 140-31-8   | Acute Tox. 3; H311<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Repr. 2; H361<br>STOT RE 1; H372      | $\geq 10 - < 30$      |
| Polyoxypropylene diamine       | 9046-10-0  | Skin Corr. 1C; H314<br>Eye Dam. 1; H318                                                                                      | $\geq 10 - < 30$      |
| 4,4'-isopropylidenediphenol    | 80-05-7    | Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Repr. 1B; H360<br>STOT SE 3; H335                                                  | $\geq 10 - < 30$      |
| Isophoronediamine              | 2855-13-2  | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1A; H317                                         | $\geq 5 - < 10$       |
| Benzyl alcohol                 | 100-51-6   | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Eye Irrit. 2A; H319                                                              | $\geq 5 - < 10$       |
| Adduct IA (epoxy amine adduct) | 68609-08-5 | Acute Tox. 4; H302<br>Skin Sens. 1; H317                                                                                     | $\geq 1 - < 5$        |
| benzyl dimethylamine           | 103-83-3   | Flam. Liq. 3; H226<br>Acute Tox. 4; H302<br>Acute Tox. 3; H331<br>Acute Tox. 4; H312<br>Skin Corr. 1B; H314                  | $\geq 1 - < 5$        |
| 2-methylpentane-1,5-diamine    | 15520-10-2 | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Corr. 1A; H314<br>Eye Dam. 1; H318<br>STOT SE 3; H335 | $\geq 1 - < 5$        |



|                              |          |                                                                                                                                |              |
|------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------|--------------|
| 2,2'-iminodiethylamine       | 111-40-0 | Acute Tox. 4; H302<br>Acute Tox. 2; H330<br>Acute Tox. 4; H312<br>Skin Corr. 1B; H314<br>Skin Sens. 1; H317<br>STOT SE 3; H335 | >= 0.1 - < 1 |
| 2-(2-aminoethylamino)ethanol | 111-41-1 | Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Repr. 1B; H360<br>STOT SE 3; H335                             | >= 0.1 - < 1 |

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 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.
- Most important symptoms and effects, both acute and delayed : Health injuries may be delayed.  
corrosive effects  
sensitizing effects  
toxic effects for reproduction  
Gastrointestinal discomfort  
Allergic reactions  
Dermatitis  
Harmful if swallowed.  
May cause an allergic skin reaction.  
Causes serious eye damage.



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 : 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.

**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).

**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.  
Pregnant women or women of child-bearing age should not be exposed to this product.  
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.
- 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**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis     |
|------------|---------|-------------------------------|------------------------------------------------|-----------|
| glycerol   | 56-81-5 | TWA (Mist)                    | 10 mg/m3                                       | CA AB OEL |
|            |         | TWA (Mist)                    | 10 mg/m3                                       | CA BC OEL |
|            |         | TWA (Respirable mist)         | 3 mg/m3                                        | CA BC OEL |
|            |         | TWAEV (Mist)                  | 10 mg/m3                                       | CA QC OEL |



|                        |          |       |                    |           |
|------------------------|----------|-------|--------------------|-----------|
| 2,2'-iminodiethylamine | 111-40-0 | TWA   | 1 ppm<br>4.2 mg/m3 | CA AB OEL |
|                        |          | TWA   | 1 ppm              | CA BC OEL |
|                        |          | TWAEV | 1 ppm<br>4.2 mg/m3 | CA QC OEL |
|                        |          | TWA   | 1 ppm              | ACGIH     |

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.  
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** : 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.  
Wash thoroughly after handling.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : Thixotropic Liquid



|                                                  |   |                                                |
|--------------------------------------------------|---|------------------------------------------------|
| Color                                            | : | light yellow                                   |
| Odor                                             | : | amine-like                                     |
| Odor Threshold                                   | : | No data available                              |
| pH                                               | : | No data available                              |
| Melting point/range / Freezing point             | : | No data available                              |
| Boiling point/boiling range                      | : | No data available                              |
| Flash point                                      | : | > 53 °C (> 127 °F)<br>(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                                   | : | 0.07 hpa                                       |
| Relative vapor density                           | : | No data available                              |
| Density                                          | : | 1.05 g/ml (23.7 °C (74.7 °F))                  |
| Solubility(ies)                                  |   |                                                |
| Water solubility                                 | : | insoluble                                      |
| 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                             | : | 570000 mm <sup>2</sup> /s ( 23.7 °C (74.7 °F)) |
| Explosive properties                             | : | No data available                              |





Oxidizing properties : No data available

Volatile organic compounds (VOC) content : 11 g/l  
A+B Combined

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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

Hazardous decomposition products : No decomposition if stored and applied as directed.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed.

### Components:

#### **Phenol, 4-nonyl, branched:**

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

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

#### **2-piperazin-1-ylethylamine:**

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

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

#### **Polyoxypropylene diamine:**

Acute oral toxicity : LD50 Oral (Rat): 2,880 mg/kg

#### **Isophoronediamine:**

Acute oral toxicity : LD50 Oral (Rat): 1,030 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 - 5,000 mg/kg

**Benzyl alcohol:**

Acute oral toxicity : LD50 Oral (Rat): 1,620 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.178 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist**Adduct IA (epoxy amine adduct):**Acute oral toxicity : LD50 Oral (Rat, female): 300 - 2,000 mg/kg  
Method: OECD Test Guideline 423**benzyldimethylamine:**

Acute oral toxicity : LD50 Oral (Rat): 579 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2.05 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rabbit): 1,477 mg/kg

**2-methylpentane-1,5-diamine:**

Acute oral toxicity : LD50 Oral (Rat): 1,170 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 1,870 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

**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**OSHA** Not applicable**NTP** Not applicable**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:****Phenol, 4-nonyl, branched:****2-piperazin-1-ylethylamine:**

Toxicity to fish : LC50 (Fish): > 100 mg/l  
Exposure time: 96 h

**Polyoxypropylene diamine:**

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 15 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 80 mg/l  
Exposure time: 48 h

**4,4'-isopropylidenediphenol:****Isophoronediamine:**

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l

NOEC (Desmodesmus subspicatus (green algae)): 1.5 mg/l

**Benzyl alcohol:**

Toxicity to fish : LC50 (Fish): > 100 mg/l  
Exposure time: 96 h



Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

**Adduct IA (epoxy amine adduct):**

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): 3.13 mg/l

Toxicity to fish (Chronic toxicity) : LC50 (Danio rerio (zebra fish)): 1.62 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 1.75 mg/l  
Exposure time: 48 h

**Persistence and degradability**

No data available

**Bioaccumulative potential**

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.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
May be harmful to the environment if released in large quantities.  
Water polluting material.

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**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.




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**SECTION 14. TRANSPORT INFORMATION**
**International Regulations****IATA-DGR**

|                                          |   |                                                                                                                     |
|------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------|
| UN/ID No.                                | : | UN 3267                                                                                                             |
| Proper shipping name                     | : | Corrosive liquid, basic, organic, n.o.s.<br>(4-nonylphenol, branched, 3-aminomethyl-3,5,5-trimethylcyclohexylamine) |
| Class                                    | : | 8                                                                                                                   |
| Packing group                            | : | III                                                                                                                 |
| Labels                                   | : | Corrosive                                                                                                           |
| Packing instruction (cargo aircraft)     | : | 856                                                                                                                 |
| Packing instruction (passenger aircraft) | : | 852                                                                                                                 |

**IMDG-Code**

|                      |   |                                                                                                                     |
|----------------------|---|---------------------------------------------------------------------------------------------------------------------|
| UN number            | : | UN 3267                                                                                                             |
| Proper shipping name | : | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.<br>(4-nonylphenol, branched, 3-aminomethyl-3,5,5-trimethylcyclohexylamine) |
| 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.<br>(Phenol, 4-nonyl, branched, 3-aminomethyl-3,5,5-trimethylcyclohexylamine) |
| 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**

The following substance(s) is/are subject to a Significant New Activity Notification:



propylene oxide  
 α-chlorotoluene

75-56-9  
 100-44-7

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## 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 QC OEL         | : | Québec. Regulation respecting occupational health and safety, 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 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 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                                                                                                                                                                                                          |
| 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                                                                                                                                                                                             |

### 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 ad-



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Revision Date : 06/06/2023  
Date format : mm/dd/yyyy  
  
Prepared by : R & D of Sika Canada Inc.  
  
Material number : 719,131

CA / Z8