

## MasterSeal HLM 5000RG

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 04/27/2020

 1.1
 07/30/2020
 000000260276
 Date of first issue: 04/27/2020

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

Product name : MasterSeal HLM 5000RG

Product code : 00000000051677002 00000000051677002

Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : MBSCS Canada, Inc.

Address : 7111 Syntex Drive, 3rd Floor

Mississauga ON L5N 8C3

Emergency telephone : ChemTel: +1-813-248-0585;

Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals

Sealant

Restrictions on use : Reserved for industrial and professional use.

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the Hazardous Products Regulations

Aspiration hazard : Category 1

Flammable liquids : Category 3

Skin corrosion/irritation : Category 2

Serious eye damage/eye

irritation

Category 1

Germ cell mutagenicity : Category 2

Specific target organ toxicity

- repeated exposure

Category 1 (Central nervous system)

Reproductive toxicity : Category 1B

Hazardous to the aquatic

environment - acute hazard

Category 3

Hazardous to the aquatic

environment - chronic hazard

Category 3

### **GHS label elements**



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Hazard pictograms :







Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapour.

H318 Causes serious eye damage.

H315 Causes skin irritation.

H304 May be fatal if swallowed and enters airways.

H341 Suspected of causing genetic defects.

H372 Causes damage to organs (Central nervous system)

through prolonged or repeated exposure. H360 May damage fertility or the unborn child.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements** 

#### Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust or mist.

P201 Obtain special instructions before use.

P273 Avoid release to the environment.

P243 Take action to prevent static discharges.

P202 Do not handle until all safety precautions have been read and understood.

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

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

P264 Wash face, hands and any exposed skin thoroughly after handling.

P233 Keep container tightly closed.

P242 Use only non-sparking tools.

P240 Ground and bond container and receiving equipment.

#### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P331 Do NOT induce vomiting.

P362 + P364 Take off contaminated clothing and wash it before

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

### Storage:

P405 Store locked up.

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



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#### Disposal:

P501 Dispose of contents/container to appropriate hazardous

waste collection point.

#### Other hazards

None known.

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

Chemical nature : polyurethane

#### Components

| Chemical name                         | CAS-No.    | Concentration (% w/w) |
|---------------------------------------|------------|-----------------------|
| talc                                  | 14807-96-6 | >= 25 - < 50          |
| Asphalt                               | 8052-42-4  | >= 7 - < 15           |
| Stoddard solvent                      | 8052-41-3  | >= 5 - < 10           |
| calcium oxide                         | 1305-78-8  | >= 7 - < 10           |
| Distillates (petroleum), hydrotreated | 64742-52-5 | >= 0 - < 5            |
| heavy naphthenic                      |            |                       |
| 1,2,4-trimethylbenzene                | 95-63-6    | >= 0 - < 10           |
| Solvent naphtha (petroleum), light    | 64742-95-6 | >= 0 - < 10           |
| arom.                                 |            |                       |
| Trimethylbenzene                      | 25551-13-7 | >= 0 - < 5            |
| mesitylene                            | 108-67-8   | >= 0 - < 3            |
| dibutyltin dilaurate                  | 77-58-7    | >= 0.2 - < 0.3        |

#### **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.

Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Remove the affected individual into fresh air and keep the

person calm.

If breathing difficulties develop, aid in breathing and seek im-

mediate medical attention.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If on skin, rinse well with water.

If on clothes, remove clothes.

If skin irritation persists, call a physician.

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.

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> Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Rinse mouth and then drink 200-300 ml of water.

Do not induce vomiting due to aspiration hazard.

Do not induce vomiting unless told to by a poison control cen-

ter or doctor.

Most important symptoms

and effects, both acute and

delayed

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye damage.

Suspected of causing genetic defects. May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated

exposure.

Treat symptomatically. Notes to physician

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Alcohol-resistant foam Suitable extinguishing media :

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

Hazardous combustion prod-

ucts

harmful vapours nitrogen oxides fumes/smoke carbon black carbon oxides

Further information The degree of risk is governed by the burning substance and

the fire conditions.

Containers may rocket or explode in heat of fire.

Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not

allow to reach sewage or effluent systems.

Contaminated extinguishing water must be disposed of in

accordance with official regulations.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

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

Personal precautions, protec- : tive equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

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Beware of vapors accumulating to form explosive concentra-

tions. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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

Sources of ignition should be kept well clear.

Take precautionary measures against static discharges. Substance/product can form explosive mixture with air. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of igni-

tion.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage

no smoking

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age conditions

Keep container tightly closed and in a well-ventilated place.

Keep away from heat.

Avoid all sources of ignition: heat, sparks, open flame.

Materials to avoid : Segregate from foods and animal feeds.

Further information on stor-

age stability

No decomposition if stored and applied as directed.



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

## Ingredients with workplace control parameters

| Components    | CAS-No.    | Value type   | Control parame-    | Basis                        |
|---------------|------------|--------------|--------------------|------------------------------|
|               |            | (Form of     | ters / Permissible |                              |
|               | 4007 70 0  | exposure)    | concentration      | 4 0 0 U I <del>T</del> I ) / |
| calcium oxide | 1305-78-8  | TWA value    | 2 mg/m3            | ACGIHTLV                     |
|               |            | REL value    | 2 mg/m3            | NIOSH                        |
|               |            | PEL          | 5 mg/m3            | 29 CFR                       |
|               |            |              |                    | 1910.1000                    |
|               |            |              |                    | (Table Z-1)                  |
|               |            | TWA value    | 5 mg/m3            | 29 CFR                       |
|               |            |              |                    | 1910.1000                    |
|               |            |              |                    | (Table Z-1-A)                |
|               |            | TWA          | 2 mg/m3            | CA AB OEL                    |
|               |            | TWA          | 2 mg/m3            | CA BC OEL                    |
|               |            | TWAEV        | 2 mg/m3            | CA QC OEL                    |
|               |            | TWA          | 2 mg/m3            | ACGIH                        |
| Asphalt       | 8052-42-4  | TWA value    | 0.5 mg/m3          | ACGIHTLV                     |
|               |            | (Inhalable   | (benzene           |                              |
|               |            | fraction)    | solubles)          |                              |
|               |            | Ceil_Time    | 5 mg/m3            | NIOSH                        |
|               |            | (fumes/smok  |                    |                              |
|               |            | e)           |                    |                              |
|               |            | TWA value    | 0.5 mg/m3          | ACGIHTLV                     |
|               |            | (Inhalable   | (benzene           |                              |
|               |            | fume)        | solubles)          |                              |
|               |            | TWA          | 5 mg/m3            | CA AB OEL                    |
|               |            | (Fumes)      |                    |                              |
|               |            | TWA (Inhal-  | 0.5 mg/m3          | CA BC OEL                    |
|               |            | able fume)   | (benzene soluble   |                              |
|               |            |              | aerosol)           |                              |
|               |            | TWAEV        | 5 mg/m3            | CA QC OEL                    |
|               |            | (Fumes)      |                    |                              |
|               |            | TWA (Fume,   | 0.5 mg/m3          | ACGIH                        |
|               |            | inhalable    | (benzene soluble   |                              |
|               |            | fraction)    | aerosol)           |                              |
| talc          | 14807-96-6 | TWA value    | 2 mg/m3            | ACGIHTLV                     |
|               |            | (Respirable  |                    |                              |
|               |            | fraction)    | 4.60               | 01.00.051                    |
|               |            | TWAEV (fi-   | 1 fibres per cubic | CA QC OEL                    |
|               |            | bers)        | centimeter         | 04.00.0=:                    |
|               |            | TWAEV        | 3 mg/m3            | CA QC OEL                    |
|               |            | (respirable  |                    |                              |
|               |            | dust)        | 0.4.65             | 04 00 05'                    |
|               |            | TWA          | 0.1 fibres per     | CA BC OEL                    |
|               |            | T14/4 /5     | cubic centimeter   | 04 45 051                    |
|               |            | TWA (Res-    | 2 mg/m3            | CA AB OEL                    |
|               |            | pirable par- |                    |                              |
|               |            | ticulates)   |                    | 04 80 05:                    |
|               |            | TWA (Res-    | 2 mg/m3            | CA BC OEL                    |
|               |            | pirable)     |                    |                              |



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|   |            | TWA                                  | 2 fibres per cubic centimeter             | CA ON OEL                            |
|---|------------|--------------------------------------|---|--------------------------------------|
|   |            | TWA (Respirable fraction)            | 2 mg/m3                                   | CA ON OEL                            |
|   |            | TWA                                  | 0.1 fibres per cubic centimeter           | ACGIH                                |
|   |            | TWA (Respirable particulate matter)  | 2 mg/m3                                   | ACGIH                                |
| solvent naphtha   | 64742-95-6 | REL value                            | 100 ppm<br>400 mg/m3                      | NIOSH                                |
|   |            | PEL                                  | 100 ppm<br>400 mg/m3                      | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|   |            | TWA value                            | 100 ppm<br>400 mg/m3                      | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|   |            | TWA                                  | 200 mg/m3<br>(total hydrocarbon<br>vapor) | CA AB OEL                            |
|   |            | TWA                                  | 200 mg/m3<br>(total hydrocarbon<br>vapor) | ACGIH                                |
| Solvent naphtha (petroleum), light arom.                    | 64742-95-6 | TWA                                  | 200 mg/m3<br>(total hydrocarbon<br>vapor) | CA AB OEL                            |
|   |            | TWA                                  | 200 mg/m3<br>(total hydrocarbon<br>vapor) | ACGIH                                |
| Stoddard solvent  | 8052-41-3  | TWA value                            | 100 ppm                                   | ACGIHTLV                             |
|   |            | REL value                            | 350 mg/m3                                 | NIOSH                                |
|   |            | Ceil_Time                            | 1,800 mg/m3                               | NIOSH                                |
|   |            | PEL                                  | 500 ppm<br>2,900 mg/m3                    | 29 CFR<br>1910.1000<br>(Table Z-1)   |
|   |            | TWA value                            | 100 ppm<br>525 mg/m3                      | 29 CFR<br>1910.1000<br>(Table Z-1-A) |
|   |            | TWA                                  | 100 ppm<br>572 mg/m3                      | CA AB OEL                            |
|   |            | TWA                                  | 290 mg/m3                                 | CA BC OEL                            |
|   |            | STEL                                 | 580 mg/m3                                 | CA BC OEL                            |
|   |            | TWAEV                                | 100 ppm<br>525 mg/m3                      | CA QC OEL                            |
|   |            | TWA                                  | 525 mg/m3                                 | CA ON OEL                            |
|   |            | TWA                                  | 100 ppm                                   | ACGIH                                |
| Distillates (petroleum), hy-<br>drotreated heavy naphthenic | 64742-52-5 | TWA value<br>(Inhalable<br>fraction) | 5 mg/m3                                   | ACGIHTLV                             |
|   |            | TWA (Mist)                           | 5 mg/m3                                   | CA AB OEL                            |
|   |            | STEL (Mist)                          | 10 mg/m3                                  | CA AB OEL                            |



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| TWAEV (Mist)  | 5 mg/m3  | CA QC OEL |
|---------------|----------|-----------|
| STEV (Mist)   | 10 mg/m3 | CA QC OEL |
| TWA (Mist)    | 1 mg/m3  | CA BC OEL |
| TWA (Inhal-   | 5 mg/m3  | ACGIH     |
| able particu- |          |           |
| late matter)  |          |           |

**Engineering measures** : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Wear a NIOSH-certified (or equivalent) organic va-

pour/particulate respirator.

Hand protection

Remarks : Wear chemical resistant protective gloves. Manufacturer's

directions for use should be observed because of great di-

versity of types.

Eye protection : Safety glasses with side-shields.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Avoid inhalation of dusts/mists/vapours.

Avoid contact with the skin, eyes and clothing.

Avoid prolonged and/or repeated contact with the skin. Handle in accordance with good building materials hygiene

and safety practice.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

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

Appearance : slightly viscous

Color : black

Odor : aromatic

Odor Threshold :

not determined

pH : not applicable

Melting point : No data available.

## **MBCC** GROUP

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Freezing point No data available.

boiling temperature : approx. 153 °C

Flash point : 49 °C

Method: Flash-Point by Pensky-Martens Closed Cup Tester.

Evaporation rate : No applicable information available.

Flammability (solid, gas) : Flammable.

Upper explosion limit / Upper

flammability limit

7.0 %(V)

Lower explosion limit / Lower

flammability limit

0.9 %(V)

Vapor pressure : approx. 8 mmHg (25 °C)

Relative vapor density : Heavier than air.

Relative density : No applicable information available.

Density : approx. 1.23 g/cm3 (20 °C)

Bulk density : 900 - 1,600 kg/m3

Solubility(ies)

Water solubility : slightly soluble (20 °C)

Solubility in other solvents : No applicable information available.

Partition coefficient: n-

octanol/water

: not applicable for mixtures

Autoignition temperature : No data available

Decomposition temperature : Vapors may form explosive mixture with air.

No decomposition if stored and handled as pre-

scribed/indicated.

Viscosity

Viscosity, dynamic : No applicable information available.

Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

Sublimation temperature : No applicable information available.



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Molecular weight : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

No hazardous decomposition products if stored and handled

as prescribed/indicated.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

Not classified based on available information.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

### Skin sensitization

Not classified based on available information.

### Respiratory sensitization

Not classified based on available information.

## Germ cell mutagenicity

Suspected of causing genetic defects.

#### Carcinogenicity

Not classified based on available information.

### 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 (Central nervous system) through prolonged or repeated exposure.

#### **Aspiration toxicity**

May be fatal if swallowed and enters airways.



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**Product:** 

May also damage the lung at swallowing (aspiration hazard).

**Further information** 

**Product:** 

Remarks : Health injuries are not known or expected under normal use.

The product has not been tested. The statements on toxicology have been derived from the properties of the individual

components.

Remarks : Solvents may degrease the skin.

**SECTION 12. ECOLOGICAL INFORMATION** 

**Ecotoxicity** 

**Product:** 

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability

No data available

**Bioaccumulative potential** 

**Components:** 

talc:

Partition coefficient: n-

octanol/water

Remarks: not applicable

Asphalt:

Partition coefficient: n-

octanol/water

Remarks: not applicable

Stoddard solvent:

Partition coefficient: n-

log Pow: 3.5 - 6.4 (20 °C)

octanol/water

Method: Partition coefficient (n-octanol/water), HPLC method.

calcium oxide:

Partition coefficient: n-

octanol/water

: Remarks: The value has not been determined because the

substance is inorganic.

1,2,4-trimethylbenzene:

Partition coefficient: n-

octanol/water

: log Pow: 3.63 (25 °C)

Method: other (calculated)



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Solvent naphtha (petroleum), light arom.:

Partition coefficient: n- : log Pow: 3.17

octanol/water Method: other (calculated)

GLP: no

mesitylene:

Partition coefficient: n- : log Pow: 3.42

octanol/water Method: other (measured)

dibutyltin dilaurate:

Partition coefficient: n- : log Pow: 3.17 (20.8 °C)

octanol/water pH: 6.1 - 6.3

Method: Partition coefficient (n-octanol/water), Shake-flask

method GLP: yes

Mobility in soil

No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual

components.

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : Dispose of in accordance with national, state and local regula-

tions

Do not discharge into drains/surface waters/groundwater. Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Contaminated packaging : Contaminated packaging should be emptied as far as possible

and disposed of in the same manner as the sub-

stance/product.

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

### International Regulations

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**UNRTDG** 

UN number : UN 1263
Proper shipping name : PAINT
Class : 3
Packing group : III
Labels : 3

**IATA-DGR** 

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

Labels : Flammable Liquids

366

Packing instruction (cargo :

aircraft)

Packing instruction (passen- : 355

ger aircraft)

**IMDG-Code** 

UN number : UN 1263 Proper shipping name : PAINT

Class : 3
Packing group : III
Labels : 3
EmS Code : F-

EmS Code : F-E, S-E Marine pollutant : no

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

Not applicable for product as supplied.

### **Domestic regulation**

**TDG** 

UN number : UN 1263 Proper shipping name : PAINT

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

### Special precautions for user

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

### **SECTION 15. REGULATORY INFORMATION**

The ingredients of this product are reported in the following inventories:

TSCA : All chemical substances in this product are either listed as

active on the TSCA Inventory or are in compliance with a

TSCA Inventory exemption.



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DSL : All components of this product are on the Canadian DSL

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1-A (29 CFR 1910.1000)

1-A)

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR

1) 1910.1000

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIHTLV : American Conference of Governmental Industrial Hygienists -

threshold limit values (US)

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

2: OEL)

CA BC OEL : Canada. British Columbia OEL

CA ON OEL : Ontario Table of Occupational Exposure Limits made under

the Occupational Health and Safety Act.

CA QC OEL : Québec. Regulation respecting occupational health and safe-

ty, Schedule 1, Part 1: Permissible exposure values for air-

borne contaminants

NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)

29 CFR 1910.1000 (Table Z- : Time Weighted Average (TWA):

1-A) / TWA value

29 CFR 1910.1000 (Table Z- : Permissible exposure limit

1) / PEL

ACGIH / TWA : 8-hour, time-weighted average
ACGIHTLV / TWA value : Time Weighted Average (TWA):
CA AB OEL / TWA : 8-hour Occupational exposure limit
CA AB OEL / STEL : 15-minute occupational exposure limit

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

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

CA QC OEL / STEV : Short-term exposure value

NIOSH / Ceil Time : Ceiling Limit Value and Time Period (if specified):

NIOSH / REL value : Recommended exposure limit (REL):

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;



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n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 07/30/2020

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