# SAFETY DATA SHEET

**RENOL-CURRY SB14800014-ZN**



| | |
|---|---|
| Substance key: 000000808571 | Revision Date: 09/19/2020 |
| Version : 1 - 1 / CDN | Date of printing :09/21/2021 |

## SECTION 1. IDENTIFICATION

**Identification of the company:**
Avient Colorants Canada Inc.
2 Lone Oak Court
Toronto, Ontario, M9C 5R9
Telephone No.: +1 514-832-2559

**Information of the substance/preparation:**
Product Stewardship
e-mail: SDS.NORAMMB@Clariant.com

**Emergency tel. number:** +1 CANUTEC (613) 996-6666

**Trade name:** **RENOL-CURRY SB14800014-ZN**
**Material number:** SB14800014

**Chemical family:** Colourant preparation
Carrier: ABS

**Primary product use:** Additive for plastic material processing

## SECTION 2. HAZARDS IDENTIFICATION

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

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

Hazards Not Otherwise Classified:
If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Colourant preparation
Carrier: ABS

**Components**

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|---|---|
| Limestone | 1317-65-3 | 0.1 - 1 |
| N,N'-Ethylenedi(stearamide) | 110-30-5 | 1 - 5 |
| C.I. Pigment Brown 24 | 68186-90-3 | 10 - 30 |

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and by the Canadian WHMIS 2015 Hazardous Products Regulations (SOR/2015-17)., The hazardous ingredients of this product are encapsulated, therefore the material is not GHS classified for health and environmental hazards as exposure is not expected., Any concentration shown as a range is due to batch variation.

## SECTION 4. FIRST AID MEASURES

| | | |
|---|---|---|
| If inhaled | : | Move the victim to fresh air.<br>Give oxygen or artificial respiration if needed.<br>Get immediate medical advice/ attention.<br>Never give anything by mouth to an unconscious person. |
| In case of skin contact | : | Wash off immediately with plenty of water for at least 15 minutes.<br>In case of burns apply cold water until pain subsides then seek medical advice.<br>Burns must be treated by a physician.<br>If molten polymer contact the skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn. Skin absorption of reground pellets is unlikely. |
| In case of eye contact | : | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Get medical attention immediately if irritation develops and persists. |
| If swallowed | : | Rinse mouth.<br>Do NOT induce vomiting.<br>Never give anything by mouth to an unconscious person.<br>Get medical advice/ attention. |
| Most important symptoms and effects, both acute and delayed | : | The possible symptoms known are those derived from the labelling (see section 2).<br>No additional symptoms are known. |
| Notes to physician | : | Treat symptomatically. |

## SECTION 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Water spray<br>Foam<br>Carbon dioxide (CO2)<br>Dry chemical |
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during firefighting | : | In case of fire hazardous decomposition products may be produced such as:<br>Styrene<br>Hydrogen cyanide (hydrocyanic acid)<br>Acrylonitrile<br>Carbon monoxide<br>Carbon dioxide (CO2)<br>Nitrogen oxides (NOx) |

Sulphur dioxide
Hydrogen chloride
Emits toxic fumes under fire conditions. This product presents no unusual fire or explosion hazards while sealed in a shipping container. During usage, if a dust cloud is generated, organic powders have the potential to be explosive with static spark or flame initiation.

Take measures to prevent the build up of electrostatic charge. Dust can form an explosive mixture in air.

Further information : Combustible material
In the event of fire and/or explosion do not breathe fumes.
During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion
Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Do not allow run-off from fire fighting to enter drains or water courses.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
Avoid contact with skin, eyes and clothing.
Wash thoroughly after handling.

Environmental precautions : Do not allow contact with soil, surface or ground water.
Prevent product from entering drains.

Methods and materials for containment and cleaning up : Avoid dust formation.
Take measures to prevent the build up of electrostatic charge.
Sweep up and shovel into suitable containers for disposal.
Take up uncontaminated material and pass on for further processing.
After cleaning, flush away traces with water.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Use only with adequate ventilation/personal protection.
For personal protection see section 8.

Avoid contact with skin, eyes and clothing.
Use only with adequate ventilation.
When handling hot melts use suitable protective clothing.
Avoid dust formation. Keep away from sources of ignition.
Lead off electrostatic charges.

Conditions for safe storage : Keep container tightly closed in a cool, well-ventilated place.
Protect from moisture.
Keep away from direct sunlight.

Further information on storage conditions : Store in a cool, dry, well-ventilated area. Keep container sealed when not in use.
Keep in an area equipped with sprinklers.
Minimize dust generation and accumulation.

Materials to avoid : not required

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| N,N'-Ethylenedi(stearamide) | 110-30-5 | TWA | 10 mg/m3 | CA AB OEL |
| | | TWA | 10 mg/m3 | CA BC OEL |
| | | TWA (Inhalable particulate matter) | 10 mg/m3 | ACGIH |
| | | TWA (Respirable particulate matter) | 3 mg/m3 | ACGIH |
| C.I. Pigment Brown 24 | 68186-90-3 | TWA | 0.5 mg/m3 (antimony) | CA AB OEL |
| | | TWAEV | 0.5 mg/m3 (antimony) | CA QC OEL |
| | | TWA | 0.5 mg/m3 (antimony) | CA BC OEL |
| | | TWA | 0.5 mg/m3 (antimony) | ACGIH |
| Limestone | 1317-65-3 | TWA | 10 mg/m3 | CA AB OEL |
| | | TWAEV (total dust) | 10 mg/m3 | CA QC OEL |

**Engineering measures** : Use only in area provided with appropriate exhaust ventilation.
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.
Use engineering controls such as local or general exhaust to maintain airborne concentrations below exposure limits.

**Personal protective equipment**

| | | |
|---|---|---|
| Respiratory protection | : | Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.<br>Use respiratory protective equipment when using this product at elevated temperatures (see section 8). |
| Hand protection<br>Remarks | : | Nitrile rubber gloves. Impervious butyl rubber gloves PVC Neoprene gloves When handling hot material, use heat resistant gloves. |
| Eye protection | : | Safety glasses with side-shields |
| Skin and body protection | : | Wear protective clothing, including long sleeves and gloves, to prevent skin contact.<br>When handling hot melts use suitable protective clothing. |
| Hygiene measures | : | The usual Industrial Hygiene precautions must be taken during work, in particular: do not drink, eat or smoke during the handling of the product and clean hands and face during work intervals and after work. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Appearance | : | Granules |
| Colour | : | yellow |
| Odour | : | characteristic |
| Odour Threshold | : | Not applicable |
| pH | : | Not applicable |
| Melting point | : | > 90 °C |
| Boiling point | : | Not applicable |
| Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |
| Flammability (solid, gas) | : | not determined |
| Self-ignition | : | Not applicable |
| Upper explosion limit / upper flammability limit | : | not tested. |

| | | |
|---|---|---|
| Lower explosion limit / Lower flammability limit | : | not tested. |
| Vapour pressure | : | Not applicable |
| Relative vapour density | : | Not applicable |
| Relative density | : | not available |
| Density | : | not tested. |
| Solubility(ies) | | |
| Water solubility | : | insoluble |
| Partition coefficient: n-octanol/water | : | This property is not applicable for mixtures. |
| Decomposition temperature | : | To the best of our current knowledge, no thermal decomposition of the product is expected if it is processed according to good manufacturing practices.<br>See section 10.4. "Conditions to avoid" |
| Viscosity | | |
| Viscosity, dynamic | : | Not applicable |
| Viscosity, kinematic | : | Not applicable |
| Explosive properties | : | no data available<br>no data available |
| Oxidizing properties | : | not available |
| Surface tension | : | Not relevant |
| Particle size | : | Product specific |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Reactivity | : | No dangerous reaction known under conditions of normal use. |
| Chemical stability | : | Stable |
| Possibility of hazardous reactions | : | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | : | To avoid thermal decomposition, do not overheat.<br>Heating can release hazardous gases.<br>Keep away from heat, sparks, open flames, and other sources of ignition.<br>If small particles are generated during further processing, handling or by other means, may form combustible dust |

concentrations in air.
Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
Keep away from heat and sources of ignition.

Incompatible materials : None.
no data available
Strong oxidizing agents
Strong acids and oxidizing agents
Strong acids and strong bases

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

## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

None known.

**Acute toxicity**

**Product:**

Acute dermal toxicity : Acute toxicity estimate: 3,036 mg/kg
Method: Calculation method

**Components:**

**N,N'-Ethylenedi(stearamide):**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.3 mg/l
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

**C.I. Pigment Brown 24:**

Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg
Method: BASF test
GLP: no

Acute inhalation toxicity : Remarks: Not applicable

Acute dermal toxicity : Remarks: Not applicable

**Skin corrosion/irritation**

**Product:**

Result: No skin irritation

**Components:**

**N,N'-Ethylenedi(stearamide):**

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

**C.I. Pigment Brown 24:**

Species: Rabbit
Exposure time: 24 h
Method: Draize Test
Result: No skin irritation
GLP: no

**Serious eye damage/eye irritation**

**Product:**

Result: No eye irritation

**Components:**

**N,N'-Ethylenedi(stearamide):**

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

**C.I. Pigment Brown 24:**

Species: rabbit eye
Result: slight irritation
Method: FDA guideline
GLP: no

**Respiratory or skin sensitisation**

**Product:**

Result: non-sensitizing

**Components:**

**N,N'-Ethylenedi(stearamide):**

Species: Mouse
Method: OECD Test Guideline 429
Result: Not a skin sensitizer.

**C.I. Pigment Brown 24:**

Remarks: Not applicable

**Germ cell mutagenicity**

**Components:**

**N,N'-Ethylenedi(stearamide):**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Test Type: Mammalian cell gene mutation assay
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

**C.I. Pigment Brown 24:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 100 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: Escherichia coli
Concentration: 2,5 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Concentration: 0,5 - 900 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells
Test system: mouse lymphoma cells
Concentration: 3,13 - 100 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

**Carcinogenicity**

**Components:**

**N,N'-Ethylenedi(stearamide):**

Carcinogenicity - Assessment : No information available.

**C.I. Pigment Brown 24:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Reproductive toxicity**

**Components:**

**N,N'-Ethylenedi(stearamide):**

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Strain: Sprague-Dawley
Application Route: oral (gavage)
General Toxicity Maternal: NOAEL: >= 1,000 mg/kg body weight
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**C.I. Pigment Brown 24:**

Effects on fertility : Test Type: One generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 250 - 500 - 1000 mg/kg
General Toxicity - Parent: NOAEL: >= 1,000 mg/kg body weight
General Toxicity F1: NOAEL: >= 1,000 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes

Effects on foetal : Species: Rat

| | | |
|---|---|---|
| development | | Strain: Sprague-Dawley<br>Application Route: oral (gavage)<br>Dose: 250 - 500 - 1000 mg/kg<br>General Toxicity Maternal: NOAEL: >= 1,000 mg/kg body weight<br>Teratogenicity: NOAEL: >= 1,000 mg/kg body weight<br>Method: OECD Test Guideline 422<br>GLP: yes |
| Reproductive toxicity - Assessment | : | No reproductive toxicity to be expected.<br>No teratogenic effects to be expected. |

**STOT - single exposure**

**Components:**

**N,N'-Ethylenedi(stearamide):**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**C.I. Pigment Brown 24:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure**

**Components:**

**N,N'-Ethylenedi(stearamide):**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**C.I. Pigment Brown 24:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

**Components:**

**N,N'-Ethylenedi(stearamide):**

Species: Rat, male and female
NOEL: >= 1000 mg/kg bw/day
Application Route: oral (gavage)
Method: OECD Test Guideline 408

**C.I. Pigment Brown 24:**

Species: Rat, male and female
NOAEL: 500 mg/kg
Application Route: oral (feed)
Exposure time: 90 d
Number of exposures: daily

Dose: 0,5 - 5 - 50 - 500 mg/kg
Group: yes
Method: OECD Test Guideline 408
GLP: No information available.

Application Route: Inhalation
Remarks: not tested.

Application Route: Skin contact
Remarks: not tested.

**Aspiration toxicity**

**Components:**

**N,N'-Ethylenedi(stearamide):**

no data available

**C.I. Pigment Brown 24:**

No aspiration toxicity classification

**Experience with human exposure**

**Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Product:**

Toxicity to fish :
Remarks: no data available

**Components:**

**N,N'-Ethylenedi(stearamide):**

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 0.027 mg/l
End point: mortality
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0022 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (algae)): 0.053 mg/l
Exposure time: 72 h

Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 0.0056 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg
Exposure time: 56 d
Method: OECD Test Guideline 222

Sediment toxicity : NOEC: >= 1000 mg/kg dry weight (d.w.)
Test Type: static test
Sediment: Artificial sediment
Exposure duration: 28 d
Method: OECD Test Guideline 218

**C.I. Pigment Brown 24:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 T.15
GLP: no
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal

concentration.

| | | |
|---|---|---|
| Toxicity to fish (Chronic toxicity) | : | Remarks: not required |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | Remarks: not required |
| Toxicity to microorganisms | : | EC50 (Pseudomonas putida): > 10,000 mg/l<br>End point: Bacteria toxicity (respiration inhibition)<br>Exposure time: 0.5 h<br>Test Type: aquatic<br>Analytical monitoring: no<br>Method: DIN 38412 T.27<br>GLP: no<br>Remarks: The details of the toxic effect relate to the nominal concentration. |
| Toxicity to soil dwelling organisms | : | Remarks: Not applicable |
| Plant toxicity | : | Remarks: Not applicable |
| Sediment toxicity | : | Remarks: Not applicable |
| Toxicity to terrestrial organisms | : | Remarks: Not applicable |

**Persistence and degradability**

**Components:**

**N,N'-Ethylenedi(stearamide):**

| | | |
|---|---|---|
| Biodegradability | : | aerobic<br>Inoculum: activated sludge<br>Carbon dioxide ($CO_2$)<br>Result: Not readily biodegradable.<br>Biodegradation: 5.5 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301B |

**C.I. Pigment Brown 24:**

| | | |
|---|---|---|
| Biodegradability | : | Remarks: Not applicable for inorganic compound. |
| Physico-chemical removability | : | Remarks: Inorganic product, cannot be eliminated from the water by biological purification processes. |

**Bioaccumulative potential**

**Product:**

| | | |
|---|---|---|
| Bioaccumulation | : | Remarks: not tested. |

**Components:**

**N,N'-Ethylenedi(stearamide):**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

**C.I. Pigment Brown 24:**

Bioaccumulation : Remarks: Not relevant for inorganic substances

**Mobility in soil**

**Product:**

Distribution among environmental compartments : Remarks: not tested.

**Components:**

**N,N'-Ethylenedi(stearamide):**

Distribution among environmental compartments : log Koc: 8.6 - 8.91
Method: calculated

**C.I. Pigment Brown 24:**

Distribution among environmental compartments : Remarks: Not applicable

**Other adverse effects**

**Product:**

Results of PBT and vPvB assessment : Remarks: No information is available as no chemical safety report (CSR) is required.

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

**Components:**

**N,N'-Ethylenedi(stearamide):**

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

**C.I. Pigment Brown 24:**

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : The substance is inorganic, thus a PBT and vPvB criteria assessment is not applicable according to Annex XIII of Regulation (EC) 1907/2006.

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : Dispose of this product in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Regulations concerning reuse or disposal of used packaging materials must be observed.

## SECTION 14. TRANSPORT INFORMATION

**TDG** not restricted

**IATA** not restricted

**IMDG** not restricted

## SECTION 15. REGULATORY INFORMATION

**NPRI Components** : Chromium (III) compound
Antimony compounds
Copper Compound

**The components of this product are reported in the following inventories:**

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

**Canadian lists**

No substances are subject to a Significant New Activity Notification.

## SECTION 16. OTHER INFORMATION

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL : Canada. British Columbia OEL
CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne 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

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; 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; 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

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