

# SAFETY DATA SHEET



**RENOL-YELLOW EM13800026-PN**

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Substance key: 000000884508

Revision Date: 06/10/2021

Version : 1 - 0 / CDN

Date of printing :07/14/2021

## SECTION 1. IDENTIFICATION

|                                       |   |
|---------------------------------------|---|
| <b>Identification of the company:</b> | Avient Colorants Canada Inc.<br>2 Lone Oak Court<br>Toronto, Ontario, M9C 5R9<br>Telephone No.: +1 514-832-2559 |
|                                       | <b>Information of the substance/preparation:</b><br>Product Stewardship<br>e-mail: SDS.NORAMMB@Clariant.com     |
|                                       | <b>Emergency tel. number:</b> +1 CANUTEC (613) 996-6666   |

**Trade name:** RENOL-YELLOW EM13800026-PN

**Material number:** EM13800026

**Chemical family:** Colourant preparation  
Carrier: -

**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: -

### Components

| Chemical name          | Common Name/Synonym    | CAS-No.    | Concentration (% w/w) |
|------------------------|------------------------|------------|-----------------------|
| Propylidynetrimethanol | Propylidynetrimethanol | 77-99-6    | 0.1 - 1               |
| Aluminium oxide        | Aluminium oxide        | 1344-28-1  | 1 - 5                 |
| C.I. Pigment Brown 24  | antimony compounds     | 68186-90-3 | 5 - 10                |
| C.I. Pigment Yellow 53 | antimony compounds     | 8007-18-9  | 5 - 10                |
| C.I. Pigment White 6   | C.I. Pigment           | 13463-67-7 | 10 - 30               |

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|                    |                    |           |         |
|--------------------|--------------------|-----------|---------|
|                    | White 6            |           |         |
| Calcium distearate | Calcium distearate | 1592-23-0 | 10 - 30 |

Any concentration shown as a range is due to batch variation.

## SECTION 4. FIRST AID MEASURES

- If inhaled : Move the victim to fresh air.  
Give oxygen or artificial respiration if needed.  
Get immediate medical advice/ attention.  
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.  
Wash off with soap and water.  
Get medical attention if irritation develops and persists.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get medical attention immediately if irritation develops and persists.
- If swallowed : Rinse mouth.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
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).  
No additional symptoms are known.
- Notes to physician : Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
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:  
Metal oxides  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur dioxide  
Hydrogen chloride

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- 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 : Non-sparking tools should be used.  
Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Sweep up and shovel into suitable containers for disposal.  
Clean contaminated surface thoroughly.

## 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.  
Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
Use only non-sparking tools.
- Conditions for safe storage : Keep container tightly closed in a cool, well-ventilated place.  
Protect from moisture.  
Keep away from direct sunlight.

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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<br>(Form of exposure)       | Control parameters /<br>Permissible concentration | Basis     |
|------------------------|------------|--|---|-----------|
| C.I. Pigment Brown 24  | 68186-90-3 | TWA                                    | 0.5 mg/m <sup>3</sup><br>(antimony)               | CA AB OEL |
|                        |            | TWAEV                                  | 0.5 mg/m <sup>3</sup><br>(antimony)               | CA QC OEL |
|                        |            | TWA                                    | 0.5 mg/m <sup>3</sup><br>(antimony)               | CA BC OEL |
|                        |            | TWA                                    | 0.5 mg/m <sup>3</sup><br>(antimony)               | ACGIH     |
| C.I. Pigment White 6   | 13463-67-7 | TWA                                    | 10 mg/m <sup>3</sup>                              | CA AB OEL |
|                        |            | TWA (Total dust)                       | 10 mg/m <sup>3</sup>                              | CA BC OEL |
|                        |            | TWA<br>(respirable dust fraction)      | 3 mg/m <sup>3</sup>                               | CA BC OEL |
|                        |            | TWAEV<br>(total dust)                  | 10 mg/m <sup>3</sup>                              | CA QC OEL |
| Aluminium oxide        | 1344-28-1  | TWA                                    | 10 mg/m <sup>3</sup>                              | CA AB OEL |
|                        |            | TWAEV<br>(total dust)                  | 10 mg/m <sup>3</sup><br>(Aluminium)               | CA QC OEL |
|                        |            | TWA<br>(Respirable)                    | 1 mg/m <sup>3</sup><br>(Aluminium)                | CA BC OEL |
|                        |            | TWA<br>(Respirable particulate matter) | 1 mg/m <sup>3</sup><br>(Aluminium)                | ACGIH     |
| Calcium distearate     | 1592-23-0  | TWA                                    | 10 mg/m <sup>3</sup>                              | CA AB OEL |
|                        |            | TWA                                    | 10 mg/m <sup>3</sup>                              | CA BC OEL |
|                        |            | TWA<br>(Inhalable particulate matter)  | 10 mg/m <sup>3</sup>                              | ACGIH     |
|                        |            | TWA<br>(Respirable particulate matter) | 3 mg/m <sup>3</sup>                               | ACGIH     |
| C.I. Pigment Yellow 53 | 8007-18-9  | TWA                                    | 0.5 mg/m <sup>3</sup>                             | CA AB OEL |

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|  |  |       |                         |           |
|--|--|-------|-------------------------|-----------|
|  |  |       | (antimony)              |           |
|  |  | TWAEV | 0.5 mg/m3<br>(antimony) | CA QC OEL |
|  |  | TWA   | 0.5 mg/m3<br>(antimony) | CA BC OEL |
|  |  | TWA   | 0.5 mg/m3<br>(antimony) | ACGIH     |

**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 : If dusty conditions exist, use NIOSH approved respirator with high efficiency (p-100) filter media.

Hand protection  
Remarks : Nitrile rubber gloves. Impervious butyl rubber gloves PVC Neoprene gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact.

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 : powder

Colour : yellow

Odour : characteristic

Odour Threshold : Not applicable

pH : Not applicable

Melting point : Not applicable

Boiling point : Not applicable

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|  |   |  |
|--|---|--|
| 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)<br>Water solubility              | : | not determined   |
| 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<br>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  |

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|                                    |   |
|------------------------------------|---|
| 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.<br>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. |
| Incompatible materials             | : Oxidizing agents<br>Strong acids and oxidizing agents   |
| Hazardous decomposition products   | : No decomposition if used as directed.   |

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact

### Acute toxicity

#### Components:

#### **Propylidynetrimeanol:**

Acute oral toxicity : LD50 (Rat, male): 14,700 mg/kg  
Method: Other

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg  
Method: Other

#### **Aluminium oxide:**

Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: No information available.

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Remarks: Not applicable

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## **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

## **C.I. Pigment White 6:**

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg  
Method: OECD Test Guideline 425  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 3.4 - 5.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: no  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: not required

## **Calcium distearate:**

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: By analogy with a product of similar composition

## **Skin corrosion/irritation**

### **Product:**

Result: No skin irritation

### **Components:**

#### **Aluminium oxide:**

Species: Rabbit  
Exposure time: 24 h  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: No information available.

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



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

**C.I. Pigment White 6:**

Species: Rabbit  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: no

**Calcium distearate:**

Species: Rabbit  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes  
Remarks: By analogy with a product of similar composition

**Serious eye damage/eye irritation**

**Product:**

Result: No eye irritation

**Components:**

**Aluminium oxide:**

Result: Mild eye irritation

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

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

**C.I. Pigment White 6:**

Species: rabbit eye  
Result: No eye irritation  
Method: OECD Test Guideline 405  
GLP: No information available.

**Calcium distearate:**

Species: rabbit eye  
Result: No eye irritation  
Method: OECD Test Guideline 405  
GLP: yes  
Remarks: By analogy with a product of similar composition

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## **Respiratory or skin sensitisation**

### **Product:**

Result: non-sensitizing

### **Components:**

#### **Aluminium oxide:**

Test Type: Draize Test

Exposure routes: Dermal

Species: Guinea pig

Method: Draize Test

Result: Not a skin sensitizer.

GLP: no

Test Type: Respiratory system

Exposure routes: inhalation (dust/mist/fume)

Species: Mouse

Method: Other

Result: Not a skin sensitizer.

GLP: no

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

Remarks: Not applicable

#### **C.I. Pigment White 6:**

Test Type: Local lymph node assay (LLNA)

Exposure routes: Dermal

Species: Mouse

Method: OECD Test Guideline 429

Result: Not a skin sensitizer.

GLP: No information available.

Test Type: Buehler Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: yes

Test Type: Respiratory system

Exposure routes: inhalation (dust/mist/fume)

Species: Mouse

Method: Other

Result: Does not cause respiratory sensitisation.

GLP: No information available.

#### **Calcium distearate:**

Test Type: Local lymph node assay (LLNA)

Exposure routes: Dermal

Species: Mouse

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Method: OECD Test Guideline 429

Result: Not a skin sensitizer.

GLP: yes

Remarks: By analogy with a product of similar composition

Test Type: Respiratory system

Exposure routes: Inhalation

Remarks: This information is not available.

## **Germ cell mutagenicity**

### **Components:**

#### **Aluminium oxide:**

Genotoxicity in vitro : Test Type: In vitro gene mutation study in mammalian cells  
Test system: mouse lymphoma cells  
Concentration: 6,1 - 780 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: By analogy with a product of similar composition

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: mammalian cells  
Metabolic activation: without  
Method: OECD Test Guideline 473  
Result: positive

Genotoxicity in vivo : Test Type: Chromosome Aberration Test  
Species: Rat (female)  
Strain: wistar  
Cell type: Bone marrow  
Application Route: oral (gavage)  
Exposure time: Single exposure  
Dose: 500 - 1000 - 2000 mg/kg  
Method: OECD Test Guideline 475  
Result: positive  
GLP: No information available.

Test Type: Micronucleus test  
Species: Rat (female)  
Strain: wistar  
Cell type: Bone marrow  
Application Route: oral (gavage)  
Exposure time: Single exposure  
Dose: 500 - 1000 - 2000 mg/kg  
Method: OECD Test Guideline 474

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Result: positive  
GLP: No information available.

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

## **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.

## **C.I. Pigment White 6:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 333 - 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

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Concentration: 333 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Strain: ICR  
Cell type: Erythrocytes  
Application Route: oral (gavage)  
Exposure time: single treatment  
Dose: 500 - 1000 - 2000 mg/kg  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

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

## **Calcium distearate:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells  
Test system: mouse lymphoma cells  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: By analogy with a product of similar composition

Test Type: Cytogenetic assay  
Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes  
Remarks: By analogy with a product of similar composition

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

## **Carcinogenicity**

### **Components:**

#### **Aluminium oxide:**

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

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

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**C.I. Pigment White 6:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Calcium distearate:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Reproductive toxicity**

**Components:**

**Propylidynetrimethanol:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

**Aluminium oxide:**

Effects on fertility : Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: Drinking water  
Dose: 57 - 189 - 567 mg/kg  
General Toxicity - Parent: NOAEL: ca. 567 mg/kg body weight  
General Toxicity F1: NOAEL: ca. 57 mg/kg body weight  
Method: Other  
GLP: yes  
Remarks: By analogy with a product of similar composition

Effects on foetal development : Species: Rat  
Strain: wistar  
Application Route: oral (gavage)  
Dose: 126 - 251 - 503 mg/kg  
Frequency of Treatment: 2 daily  
General Toxicity Maternal: NOAEL: > 100 mg/kg body weight  
Teratogenicity: NOAEL: 503 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: No information available.  
Remarks: By analogy with a product of similar composition

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

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

Effects on fertility : Test Type: One generation study  
Species: Rat, male and female

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Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 250 - 500 - 1000 mg/kg  
General Toxicity - Parent: NOAEL:  $\geq$  1,000 mg/kg body weight  
General Toxicity F1: NOAEL:  $\geq$  1,000 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes

Effects on foetal development : Species: Rat  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 250 - 500 - 1000 mg/kg  
General Toxicity Maternal: NOAEL:  $\geq$  1,000 mg/kg body weight  
Teratogenicity: NOAEL:  $\geq$  1,000 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

## **C.I. Pigment White 6:**

Effects on fertility : Remarks: no data available

Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Strain: wistar  
Application Route: oral (gavage)  
Dose: 100, 300, 1000 mg/kg bw  
Duration of Single Treatment: 14 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight  
Developmental Toxicity: NOAEL: 1,000 mg/kg body weight  
Embryo-foetal toxicity: NOEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: No significant adverse effects were reported

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.  
Did not show teratogenic effects in animal experiments.

## **Calcium distearate:**

Effects on fertility : Species: Rat  
Application Route: Oral  
General Toxicity - Parent: NOAEL:  $>$  1,000 mg/kg body weight  
General Toxicity F1: NOAEL:  $>$  1,000 mg/kg body weight  
Method: OECD Test Guideline 421  
GLP: yes

Effects on foetal development : Species: Rat  
Application Route: Oral

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Teratogenicity: NOAEL: > 1,000 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: By analogy with a product of similar composition

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

## **STOT - single exposure**

### **Components:**

#### **Aluminium oxide:**

Target Organs: Lungs

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

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

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

#### **C.I. Pigment White 6:**

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

#### **Calcium distearate:**

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

## **STOT - repeated exposure**

### **Components:**

#### **Aluminium oxide:**

Target Organs: Lungs

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

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

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

#### **C.I. Pigment White 6:**

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

#### **Calcium distearate:**

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



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## **Repeated dose toxicity**

### **Components:**

#### **Aluminium oxide:**

Species: Rat, male and female

NOAEL: 57 mg/kg

Application Route: Drinking water

Exposure time: 1 a

Number of exposures: continuously

Dose: 57 - 189 - 567 mg/kg

Group: yes

Method: OECD Test Guideline 426

GLP: yes

Remarks: By analogy with a product of similar composition

Species: Rat

LOAEL: 0.070 mg/l

Application Route: Inhalation

Exposure time: 6 m

Number of exposures: 6 hr/day; 5 days a week

Dose: 15-30-50-70-100 mg Al/m<sup>3</sup>

Method: OECD Test Guideline 413

GLP: No information available.

Application Route: Skin contact

Remarks: The study is not necessary from a scientific perspective.

#### **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.

#### **C.I. Pigment White 6:**

Species: Rat, male

NOEL: > 24000 mg/kg bw/day

Application Route: oral (gavage)

Exposure time: 29 d

Number of exposures: daily

Dose: 24000 mg/kg

Group: yes

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Method: OECD Test Guideline 407  
GLP: No information available.

Species: Rat, male and female  
NOAEL: 0.01 mg/l  
Application Route: Inhalation  
Exposure time: 2 a  
Number of exposures: 6 hours/day, 5 days/week  
Dose: 0,0106 - 0,0507 - 0,250 mg/l  
Group: yes  
Method: Repeated Dose Toxicity (chronic Toxicity)  
GLP: no

**Calcium distearate:**

Species: Rat  
NOAEL: > 2,000 mg/kg  
Application Route: Oral  
Method: OECD Test Guideline 407  
GLP: yes

**Aspiration toxicity**

**Components:**

**Aluminium oxide:**

No aspiration toxicity classification

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

No aspiration toxicity classification

**C.I. Pigment White 6:**

No aspiration toxicity classification

**Calcium distearate:**

No aspiration toxicity classification

**Experience with human exposure**

**Product:**

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

**Further information**

**Components:**

**C.I. Pigment White 6:**

Remarks: Lung damage possible.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish :  
Remarks: no data available

#### Components:

##### **Propylidynetrimethanol:**

Toxicity to fish : LC50 (Alburnus alburnus (Bleak)): > 1,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: Other

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 13,000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: Other

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
Exposure time: 72 h  
Method: Other

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 21 d  
Test Type: static test  
Method: Other

##### **Aluminium oxide:**

Toxicity to fish : NOEC (Salmo trutta (brown trout)): > 0.072 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): > 0.071 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): >= 0.052 mg/l  
End point: Growth rate  
Exposure time: 72 h

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Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

EC50 (Pseudokirchneriella subcapitata (green algae)): 1.05 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: By analogy with a product of similar composition

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 56.48 mg/l  
Exposure time: 7 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: Other  
GLP: yes  
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.076 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: By analogy with a product of similar composition

Toxicity to microorganisms : Remarks: Not applicable

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

## Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

## 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

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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  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 0.5 h  
Test Type: aquatic  
Analytical monitoring: no  
Method: DIN 38412 T.27  
GLP: no  
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

**C.I. Pigment White 6:**

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Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: EPA  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: No information available.  
Remarks: The details of the toxic effect relate to the nominal concentration.

LC50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no data available  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no data available  
Method: OECD Test Guideline 202  
GLP: no data available  
Remarks: The details of the toxic effect relate to the nominal concentration.

LC50 (Acartia tonsa): > 10,000 mg/l  
Exposure time: 48 h  
Analytical monitoring: no data available  
Method: ISO 14669 and PARCOM method  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): 61 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: EPA  
GLP: No information available.  
Remarks: The details of the toxic effect relate to the nominal concentration.

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|                                     |   |  |
|-------------------------------------|---|--|
|                                     |   | EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l<br>End point: Growth rate<br>Exposure time: 72 h<br>Analytical monitoring: no data available<br>Method: ISO 10253<br>GLP: yes<br>Remarks: The details of the toxic effect relate to the nominal concentration.                                      |
| Toxicity to fish (Chronic toxicity) | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 7.31 mg/l<br>Exposure time: 28 d<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: Other<br>GLP: No information available.<br>Remarks: By analogy with a product of similar composition   |
| Toxicity to microorganisms          | : | EC50 (activated sludge of a predominantly domestic sewage): > 1,000 mg/l<br>End point: Bacteria toxicity (respiration inhibition)<br>Exposure time: 3 h<br>Test Type: aquatic<br>Method: OECD Test Guideline 209<br>GLP: yes<br>Remarks: The details of the toxic effect relate to the nominal concentration.  |
|                                     |   | NOEC (activated sludge of a predominantly domestic sewage): >= 1,000 mg/l<br>End point: Bacteria toxicity (respiration inhibition)<br>Exposure time: 3 h<br>Test Type: aquatic<br>Method: OECD Test Guideline 209<br>GLP: yes<br>Remarks: The details of the toxic effect relate to the nominal concentration. |
| Toxicity to soil dwelling organisms | : | Test Type: artificial soil<br>NOEC (Folsomia candida): 0,1 ->= 10 %<br>Exposure time: 28 d<br>End point: mortality<br>Method: ISO 11267<br>GLP: no<br>Remarks: By analogy with a product of similar composition<br>This product does not have any known adverse effect on the soil organisms tested.           |
| Plant toxicity                      | : | NOEC: >= 10 %<br>Exposure time: 20 h<br>End point: Growth<br>Species: Lactuca sativa (lettuce)<br>Analytical monitoring: yes<br>Method: Other  |

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GLP: no

Remarks: By analogy with a product of similar composition

No effect on the growth was observed.

Sediment toxicity

: NOEC (Hyalella azteca (Scud)):  $\geq 100000$  %

Analytical monitoring: no

Sediment: artificial soil

Exposure duration: 28 d

Nominal / Measured: nominal

Basis for effect: mortality

Method: Other

GLP: no

Remarks: By analogy with a product of similar composition

NOEC:  $\geq 14989$  mg/kg dry weight (d.w.)

Analytical monitoring: no data available

Sediment: Natural sediment

Exposure duration: 10 d

Nominal / Measured: nominal

Basis for effect: mortality

Method: Other

GLP: yes

## Ecotoxicology Assessment

Chronic aquatic toxicity

: This product has no known ecotoxicological effects.

## Calcium distearate:

Toxicity to fish

: LC50 (Oryzias latipes):  $> 100$  mg/l

Exposure time: 96 h

Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other  
aquatic invertebrates

: EC50 (Daphnia magna (Water flea)):  $> 100$  mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic  
plants

: EC50 (Pseudokirchneriella subcapitata (green algae)):  $> 100$  mg/l

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Toxicity to fish (Chronic  
toxicity)

: Remarks: not required

Toxicity to daphnia and other  
aquatic invertebrates  
(Chronic toxicity)

: NOEC (Daphnia magna (Water flea)):  $> 0.22$  mg/l

Exposure time: 21 d

Test Type: semi-static test

Method: OECD Test Guideline 211



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GLP: yes

Remarks: By analogy with a product of similar composition

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: aquatic  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: By analogy with a product of similar composition

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: no data available

Toxicity to terrestrial organisms : Remarks: Not applicable

## Persistence and degradability

### Components:

#### **Aluminium oxide:**

Biodegradability : Remarks: Not applicable

#### **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.

#### **C.I. Pigment White 6:**

Biodegradability : Remarks: Not applicable for inorganic compound.

#### **Calcium distearate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 93 %  
Method: OECD Test Guideline 301C

Result: Readily biodegradable.  
Biodegradation: 99 %  
Method: OECD Test Guideline 301B

## Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: not tested.

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## **Components:**

### **Aluminium oxide:**

Bioaccumulation : Remarks: Not applicable

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

Bioaccumulation : Remarks: Not relevant for inorganic substances

### **C.I. Pigment White 6:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 20 - 200  
Exposure time: 14 d  
Concentration: 0.1 - 1 mg/l  
Method: Other  
GLP: No information available.  
Remarks: Does not accumulate in organisms.

Partition coefficient: n-octanol/water : Remarks: inorganic

### **Calcium distearate:**

Bioaccumulation : Remarks: Due to the low logPow bioaccumulation is not expected

## **Mobility in soil**

### **Product:**

Distribution among environmental compartments : Remarks: not tested.

## **Components:**

### **Aluminium oxide:**

Distribution among environmental compartments : Remarks: Not applicable

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

Distribution among environmental compartments : Remarks: Not applicable

### **C.I. Pigment White 6:**

Mobility : Remarks: Adsorption to solid soil phase is possible.

Distribution among environmental compartments : Adsorption/Soil  
Medium: water - soil  
log Koc: 4.61  
Method: Other

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## **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:**

#### **Aluminium oxide:**

- Environmental fate and pathways : not available
- Results of PBT and vPvB assessment : Remarks: Not applicable
- Additional ecological information : Do not allow to enter ground water, waterways or waste water.

#### **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.

#### **C.I. Pigment White 6:**

- Environmental fate and pathways : not available
- Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
- Additional ecological information : Do not allow to enter ground water, waterways or waste water.

#### **Calcium distearate:**

- Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.
- Additional ecological information : Do not allow to enter ground water, waterways or waste water.

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## 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

|             |                |
|-------------|----------------|
| <b>TDG</b>  | not restricted |
| <b>IATA</b> | not restricted |
| <b>IMDG</b> | not restricted |

## SECTION 15. REGULATORY INFORMATION

- NPRI Components** : Chromium (III) compound  
Antimony compounds

**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 / TWA EV : Time-weighted average exposure value

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;

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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; TECI - Thailand Existing Chemicals Inventory; 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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