

### **RENOL-WHITE CV03800023-ZN**

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

Identification of the	Clariant Plastics & Coatings Canada Inc.				
company:	2 Lone Oak Court				
	Toronto, Ontario, M9C 5R9				
	Telephone No.: +1 514-832-2559				
	Information of the substance/preparation:				
	BU Masterbatches				
	Product Stewardship, +1-704-331-7710				
	e-mail: SDS.NORAM@clariant.com				
	Emergency tel. number: +1 CANUTEC (613) 996-6666				
Trade name: Material number:	RENOL-WHITE CV03800023-ZN CV03800023				
	0103000023				
Chemical family:	Colourant preparation Carrier: PVC				

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: PVC

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
C.I. Pigment Black 28	68186-91-4	0.1 - 1
Aluminium oxide	1344-28-1	0.1 - 1
Amorphous silicon dioxide	7631-86-9	0.1 - 1
Calcium carbonate	471-34-1	1 - 5
Di-n-octyltin-bis-(2-ethylhexylthioglycolate)	15571-58-1	1 - 5
C.I. Pigment White 6	13463-67-7	30 - 60



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Polyvinyl chloride	9002-86-2	30 - 60
1910.1200) and by the Canad	lian WHMIS 2015 Hazardous hts of this product are encaps environmental hazards as ex	d Communication Standard (29 CFR Products Regulations (SOR/2015- ulated, therefore the material is not cosure is not expected., Any
CTION 4. FIRST AID MEASUR		
If inhaled	: Move the victim to fresh Give oxygen or artificial Get immediate medical a	respiration if needed. advice/ attention.
		mouth to an unconscious person.
In case of skin contact	minutes. In case of burns apply c seek medical advice. Burns must be treated b If molten polymer contac water. Do not attempt to	ct the skin, cool rapidly with cold o peel polymer from skin. Obtain rmal burn. Skin absorption of
In case of eye contact	for at least 15 minutes.	plenty of water, also under the eyelids
If swallowed	: Rinse mouth. Do NOT induce vomiting Never give anything by Get medical advice/ atte	mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	: The possible symptoms labelling (see section 2). No additional symptoms	

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet



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Specific hazards during firefighting	:	In case of fire hazardous decomposition products may be produced such as: Hydrogen chloride Carbon monoxide Carbon dioxide (CO2) Sulphur oxides Hydrogen sulfide (H2S) Metal oxides
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.
CTION 6. ACCIDENTAL RELEA	٩S	E 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.

#### 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	:	<ul> <li>Handle in accordance with good industrial hygiene and safety practice.</li> <li>Use only with adequate ventilation/personal protection.</li> <li>For personal protection see section 8.</li> <li>Avoid contact with skin, eyes and clothing.</li> <li>Use only with adequate ventilation.</li> <li>When handling hot melts use suitable protective clothing.</li> </ul>



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	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.
Technical : measures/Precautions	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
C.I. Pigment Black 28	68186-91-4	TWA	1 mg/m3 (Copper)	NIOSH REL
C.I. Pigment White 6	13463-67-7	TWA	10 mg/m3	CA AB OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWA (respirable dust fraction)	3 mg/m3	CA BC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
Aluminium oxide	1344-28-1	TWA	10 mg/m3	CA AB OEL
		TWAEV (total dust)	10 mg/m3 (Aluminium)	CA QC OEL
		TWA (Respirable)	1 mg/m3 (Aluminium)	CA BC OEL
		TWA (Respirable fraction)	1 mg/m3 (Aluminium)	ACGIH
Amorphous silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
Polyvinyl chloride	9002-86-2	TWA (Respirable)	1 mg/m3	CA BC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL



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			TWA (Respirable fraction)	1 mg/m3	ACGIH	
Calcium carbonate		471-34-1	TWAEV (total dust)	10 mg/m3	CA QC OEI	
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 equipm	nent					
Respiratory protection	:	Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated. Use respiratory protective equipment when using this product at elevated temperatures (see section 8).				
Hand protection						
Remarks	:	Nitrile rubber gloves. Impervious butyl rubber gloves PVC Neoprene gloves When handling hot material, use heat resistant gloves.				
Eye protection	:	Safety glasse	s with side-shiel	ds		
Skin and body protection	:	to prevent ski	n contact.	uding long sleeves an suitable protective cl	-	
Hygiene measures	:	during work, in the handling of	n particular: do r	precautions must be not drink, eat or smok id clean hands and fa	e during	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Granules
Colour	:	white
Odour	:	characteristic
Odour Threshold	:	Not applicable
рН	:	Not applicable
Melting point	:	> 70 °C
Boiling point	:	Not applicable

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Flash point		Not applicable	
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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	:	> 200 °C	
Viscosity			
Viscosity, dynamic	:	Not applicable	
Viscosity, kinematic	:	Not applicable	
Explosive properties	:	no data available 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	:	Lithium



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reactions	
Conditions to avoid :	To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. Keep away from heat, sparks, open flames, and other sources of ignition. 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.
Incompatible materials :	none Strong acids and strong bases
Hazardous decomposition : products	When handled and stored appropriately, no dangerous decomposition products are known The product does not contain any chemical groups which suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy higher than 300 J/g.

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure None known.	
Acute toxicity	
Product:	
Acute inhalation toxicity	<ul> <li>Acute toxicity estimate: 11.67 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method</li> </ul>
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:	
Aluminium oxide:	
Acute oral toxicity	<ul> <li>LD50 (Rat, male and female): &gt; 10,000 mg/kg Method: OECD Test Guideline 401 GLP: No information available.</li> </ul>
Acute inhalation toxicity	<ul> <li>LC50 (Rat, male and female): &gt; 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</li> </ul>



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Acute dermal toxicity	:	Remarks: Not applicable
Amorphous silicon dioxide:		
Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 2.08 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: Other GLP: no
Di-n-octyltin-bis-(2-ethylhex	yltł	nioglycolate):
Acute oral toxicity	:	LD50 (Rat, male and female): 2,000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity	:	Remarks: Not applicable
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes
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 derma toxicity Remarks: not required
Polyvinyl chloride:		
Acute oral toxicity	:	Remarks: Not relevant

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 inhalation toxicity

 Acute dermal toxicity
 : Remarks: Not relevant

#### 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.

#### Amorphous silicon dioxide:

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

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

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

#### Polyvinyl chloride:

Remarks: This information is not available.

#### Serious eye damage/eye irritation

## Product:

Result: No eye irritation

#### **Components:**

#### Aluminium oxide:

Species: rabbit eye Result: No eye irritation Method: FDA guideline GLP: No information available.





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#### Amorphous silicon dioxide:

Species: rabbit eye Result: No eye irritation Exposure time: 24 h Method: OECD Test Guideline 405 GLP: yes

#### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Species: rabbit eye Result: non-irritant Exposure time: 96 h Method: OECD Test Guideline 405 GLP: yes

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

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

#### Polyvinyl chloride:

Remarks: This information is not available.

#### 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: non-sensitizing GLP: no

Test Type: Respiratory system Exposure routes: inhalation (dust/mist/fume) Species: Mouse Method: Other Result: non-sensitizing GLP: no

#### Amorphous silicon dioxide:

Remarks: Not relevant



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#### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Test Type: Guinea pig maximization test Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: May cause sensitisation by skin contact. GLP: yes

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

Test Type: Mouse local lymphnode assay 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.

#### Polyvinyl chloride:

Exposure routes: Skin contact Result: not known

#### Germ cell mutagenicity

#### **Components:**

#### Aluminium oxide:

Genotoxicity in vitro	<ul> <li>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</li> </ul>
Genotoxicity in vivo	: Test Type: Chromosome Aberration Test Species: Rat (female) Strain: wistar Cell type: Bone marrow



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	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 Result: positive GLP: No information available.
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.
Amorphous silicon dioxide:	
Genotoxicity in vitro :	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Concentration: 38 - 1000 μg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes
	Test Type: In vitro gene mutation study in mammalian cells Test system: Chinese hamster ovary cells Concentration: 10 - 500 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 667 - 10000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
Genotoxicity in vivo :	Test Type: HGPRT assay Species: Rat (male) Strain: Fischer F344 Application Route: Inhalation Exposure time: 13 w, 6 h/d, 5 d/wk Dose: ca. 50 mg/m3 Method: Other



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	Result: negative GLP: No information available.
Germ cell mutagenicity - Assessment	: It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.
Di-n-octyltin-bis-(2-ethylhe	xylthioglycolate):
Genotoxicity in vitro	<ul> <li>Test Type: In vitro gene mutation study in mammalian cells Test system: mouse lymphoma cells Concentration: 0,006 - 100 μg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes</li> </ul>
	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 150 - 12150 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: no
Genotoxicity in vivo	<ul> <li>Test Type: Chromosome Aberration Test Species: Mouse (male and female) Cell type: Bone marrow cells Application Route: oral (gavage) Exposure time: 30 h Dose: 2250 - 4500 - 9000 mg/kg Method: OECD Test Guideline 474 Result: negative GLP: No information available. Test substance: other TS</li> </ul>
	Test Type: Chromosome Aberration Test Species: Mouse (male and female) Strain: CD1 Cell type: Bone marrow cells Application Route: oral (gavage) Exposure time: 72 h Dose: 2250 - 4500 - 9000 mg/kg Method: OECD Test Guideline 474 Result: negative GLP: No information available. Test substance: other TS
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



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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
		Test Type: Ames test Test system: Escherichia coli 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
Polyvinyl chloride:		
Genotoxicity in vitro	:	Remarks: Not applicable
Germ cell mutagenicity - Assessment	:	No information available.
Carcinogenicity		
<u>Components:</u>		
Aluminium oxide:		
Carcinogenicity - Assessment	:	Carcinogenicity classification not possible from current data.
Amorphous silicon dioxide:		
Carcinogenicity - Assessment	:	Not classifiable as a human carcinogen.
Di-n-octyltin-bis-(2-ethylhexy	ylth	nioglycolate):
Carcinogenicity - Assessment	:	No information available.



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<b>C.I. Pigment White 6:</b> Carcinogenicity - Assessment	:	Not classifiable as a human carcinogen.
<b>Polyvinyl chloride:</b> Carcinogenicity - Assessment	:	No information available.
Reproductive toxicity		
Components:		
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.
Amorphous silicon dioxide:		
Effects on fertility	:	Test Type: One generation study Species: Rat, male and female Strain: Sprague-Dawley Application Route: oral (feed) Dose: 497 (m), 509 (f) mg/kg General Toxicity - Parent: NOAEL: 497 mg/kg body weight General Toxicity F1: NOAEL: 497 mg/kg body weight Method: OECD Test Guideline 415 GLP: no
Effects on foetal development	:	Species: Rat Strain: wistar Application Route: oral (gavage)



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	Dose: 13,5 - 62,7 - 292 - 1350mg/kg General Toxicity Maternal: NOAEL: 1,350 mg/kg body weight Teratogenicity: NOAEL: 1,350 mg/kg body weight Method: OECD Test Guideline 414 GLP: no
Reproductive toxicity - Assessment	: No reproductive toxicity to be expected. No teratogenic effects to be expected.
Di-n-octyltin-bis-(2-ethylhexy	ylthioglycolate):
Effects on fertility	<ul> <li>Test Type: Two-generation study Species: Rat, male and female Strain: Sprague-Dawley Application Route: oral (feed) Dose: 20 - 60 -200 ppm General Toxicity - Parent: NOAEL: ca. 1.6 mg/kg body weight General Toxicity F1: NOAEL: 1.6 mg/kg body weight Method: OECD Test Guideline 416 GLP: yes Remarks: By analogy with a product of similar composition</li> </ul>
Effects on foetal development	<ul> <li>Species: Rabbit</li> <li>Strain: New Zealand white</li> <li>Application Route: oral (gavage)</li> <li>Dose: 4 - 20 - 80 mg/kg</li> <li>General Toxicity Maternal: NOAEL: 20 mg/kg body weight</li> <li>Teratogenicity: NOAEL: 80 mg/kg body weight</li> <li>Method: OECD Test Guideline 414</li> <li>GLP: yes</li> </ul>
Reproductive toxicity - Assessment	: Clear evidence of adverse effects on development, based on animal experiments. Classification as "teratogenic" is not justifiable.
C.I. Pigment White 6:	
Effects on fertility	: Remarks: no data available
Effects on foetal development	<ul> <li>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</li> </ul>
Reproductive toxicity -	: No evidence of adverse effects on sexual function and fertility
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Assessment	or on development, based on animal experiments. Did not show teratogenic effects in animal experiments.
Polyvinyl chloride:	
Effects on fertility :	Remarks: This information is not available.
Effects on foetal : development	Remarks: This information is not available.
Reproductive toxicity - : Assessment	No information available. No information available.

#### STOT - single exposure

#### **Components:**

#### Amorphous silicon dioxide:

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

#### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

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.

#### Polyvinyl chloride:

Remarks: no data available

#### STOT - repeated exposure

#### **Components:**

#### Amorphous silicon dioxide:

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

#### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Assessment: Causes damage to organs through prolonged or repeated exposure.

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

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

#### **Polyvinyl chloride:**

Remarks: no data available

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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/m3 Method: OECD Test Guideline 413 GLP: No information available.

Application Route: Skin contact Remarks: The study is not necessary from a scientific perspective.

#### Amorphous silicon dioxide:

Species: Rat, male and female NOAEL: 4,000 - 4,500 mg/kg Application Route: oral (feed) Exposure time: 13 w Number of exposures: continuously Dose: 0,5 - 2 - 6,7 % SI in diet Group: yes Method: OECD Test Guideline 408 GLP: yes

Species: Rat, male and female NOAEL: 0.0013 mg/l LOAEL: 0.0059 mg/l Application Route: Inhalation Exposure time: 13 w Number of exposures: 6 hr/day; 5 days a week Dose: 1,3 - 5,9 - 31 mg/m3 Group: yes Method: OECD Test Guideline 413 GLP: yes

Application Route: Skin contact Remarks: This information is not available.

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#### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Species: Rat, male and female NOAEL: 0.5 mg/kg Application Route: oral (feed) Exposure time: 90 d Number of exposures: daily Dose: 10-25-50-100-250-500-1000 ppm Group: yes Method: OECD Test Guideline 408 GLP: no

#### 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 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

#### Polyvinyl chloride:

Remarks: This information is not available.

#### **Aspiration toxicity**

#### **Components:**

Aluminium oxide: No aspiration toxicity classification

#### Amorphous silicon dioxide:

No aspiration toxicity classification

#### Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

No aspiration toxicity classification



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### C.I. Pigment White 6:

No aspiration toxicity classification

### Polyvinyl chloride:

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.

### SEC

CTION 12. ECOLOGICAL INFO	RMATION
Ecotoxicity <u>Product:</u> Toxicity to fish	: Remarks: no data available
Components:	
Aluminium oxide:	
Toxicity to fish	<ul> <li>NOEC (Salmo trutta (brown trout)): &gt; 0.072 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes</li> </ul>
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>NOEC (Daphnia magna (Water flea)): &gt; 0.071 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes</li> </ul>
Toxicity to algae	<ul> <li>NOEC (Pseudokirchneriella subcapitata (green algae)): &gt;= 0.052 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201</li> </ul>



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		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	:	GLP: 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.
Amorphous silicon dioxide: Toxicity to fish	:	LL0 (Brachydanio rerio (zebrafish)): 10,000 mg/l Exposure time: 96 h Test Type: static test



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		Method: OECD Test Guideline 203 GLP: yes Remarks: The details of the toxic effect relate to the nomina concentration.
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 1,000 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	:	EL50 (Desmodesmus subspicatus (green algae)): > 10,000 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: By analogy with a product of similar composition 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	:	GLP: 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

Toxicity to fish	: LC50 (Brachydanio rerio (zebrafish)): > 24 mg/l Exposure time: 96 h Test Type: semi-static test
	Analytical monitoring: yes Method: OECD Test Guideline 203



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		GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.17 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): 0.17 mg End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: Directive 87/302/EEC, part C, p. 89 GLP: yes
		NOEC (Desmodesmus subspicatus (green algae)): 0.04 m End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to fish (Chronic toxicity)	:	Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.286 mg/l Exposure time: 21 d Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes
M-Factor (Chronic aquatic toxicity)	:	1
Toxicity to microorganisms	:	EC50 (activated sludge): > 100 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Analytical monitoring: no Method: Directive 87/302/EEC, part C, p. 118 GLP: yes Remarks: The details of the toxic effect relate to the nomina concentration.
Toxicity to soil dwelling organisms	:	Remarks: Not applicable

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Plant toxicity	:	Remarks: Not applicable
Sediment toxicity	:	Remarks: Not applicable
Toxicity to terrestrial organisms	:	Remarks: Not applicable
C.I. Pigment White 6:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg 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.



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Toxicity to algae	EC50 (Pseudokirchneriella subcapitata (microalgae)): 61 n 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 nomin concentration.	-
	EC50 (Skeletonema costatum (marine diatom)): > 10,000 End point: Growth rate Exposure time: 72 h Analytical monitoring: no data available Method: ISO 10253 GLP: yes Remarks: The details of the toxic effect relate to the nomin concentration.	-
Toxicity to fish (Chronic toxicity)	LC50 (Oncorhynchus mykiss (rainbow trout)): 7.31 mg/l Exposure time: 28 d Test Type: static test Analytical monitoring: yes Method: Other GLP: No information available. Remarks: By analogy with a product of similar composition	٦
Toxicity to microorganisms	EC50 (activated sludge of a predominantly domestic sewa > 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: The details of the toxic effect relate to the nomin concentration.	
	NOEC (activated sludge of a predominantly domestic sewage): >= 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: The details of the toxic effect relate to the nomin concentration.	nal
Toxicity to soil dwelling organisms	Test Type: artificial soil NOEC (Folsomia candida): 0,1 ->= 10 % Exposure time: 28 d End point: mortality Method: ISO 11267	



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		GLP: no Remarks: By analogy with a product of similar composition This product does not have any known adverse effect on the soil organisms tested.
Plant toxicity	:	NOEC (Lactuca sativa (lettuce)): >= 10 % Exposure time: 20 h End point: Growth Analytical monitoring: yes Method: Other GLP: no Remarks: By analogy with a product of similar composition No effect on the growth was observed.
Sediment toxicity	:	NOEC (Hyalella azteca (Scud)): >= 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: >= 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
Polyvinyl chloride:		
Toxicity to fish	:	no toxicity, except ingestion Remarks: Not applicable
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Not applicable
Toxicity to algae	:	Remarks: Not applicable
Toxicity to fish (Chronic toxicity)	:	no toxicity, except ingestion Remarks: Not applicable
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: Not applicable
Toxicity to microorganisms	:	Remarks: Not applicable
Toxicity to soil dwelling	:	Remarks: Not applicable



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organisms		
Plant toxicity	: Remarks: Not applica	ble
Sediment toxicity	: Remarks: Not applica	ble
Toxicity to terrestrial organisms	: no toxicity, except ing Remarks: Not applica	
Persistence and degradabi	ity	
Components:		
Aluminium oxide:		
Biodegradability	: Remarks: Not applica	ble
Amorphous silicon dioxide	:	
Biodegradability	: Remarks: Not applica	ble
Di-n-octyltin-bis-(2-ethylhe	ylthioglycolate):	
Biodegradability	: aerobic Inoculum: activated sl Concentration: 50 mg BOD in % of theoretic Result: Not readily bic Biodegradation: 30 - Exposure time: 28 d Method: OECD Test 0 GLP: yes	al OD odegradable. 40 %
C.I. Pigment White 6:		
Biodegradability	: Remarks: Not applica	ble for inorganic compound.
Polyvinyl chloride:		
Biodegradability	Not applicable due to not come into contac	odegradable. er is too large to be bioavailable. insolubility in water. This product do t with the effluent when it is used for can be removed by filtration
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: not tested.	
Components:		



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Bioaccumulation	:	Remarks: Not applicable
Amorphous silicon dioxide:		
Bioaccumulation	:	Remarks: Not applicable
Di-n-octyltin-bis-(2-ethylhex	ylth	nioglycolate):
Bioaccumulation	:	Species: Oncorhynchus mykiss (rainbow trout) Bioconcentration factor (BCF): 99 - 1,294 Exposure time: 30 d Concentration: DOT: 0,25 - 2,5 µg/l Method: OECD Guide-line 305 B GLP: yes
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
Polyvinyl chloride:		
Bioaccumulation	:	Remarks: Not applicable
Mobility in soil		
Product: Distribution among	:	Remarks: not tested.
environmental compartments		
Components:		
Aluminium oxide:		
Distribution among environmental compartments	:	Remarks: Not applicable
Amorphous silicon dioxide:		
Distribution among environmental compartments	:	Remarks: Not applicable
Di-n-octyltin-bis-(2-ethylhex	ylth	nioglycolate):



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C.I. Pigment White 6:		
Mobility	:	Remarks: Adsorption to solid soil phase is possible.
Distribution among environmental compartments	:	Adsorption/Soil Medium: water - soil
environmental comparations		log Koc: 4.61
		Method: Other
Polyvinyl chloride:		
Distribution among	:	Remarks: The product is insoluble and sinks in water.
environmental compartments		
Other adverse effects		
Product:		
Results of PBT and vPvB	:	Remarks: No information is available as no chemical safet
assessment		report (CSR) is required.
Additional ecological	:	Do not allow to enter ground water, waterways or waste w
information		
Components:		
Aluminium oxide:		
Environmental fate and	:	not available
pathways		
Results of PBT and vPvB	:	Remarks: Not applicable
assessment		
Additional ecological	:	Do not allow to enter ground water, waterways or waste w
information		
Amorphous silicon dioxide		
Environmental fate and	:	not available
pathways	•	
Results of PBT and vPvB		Remarks: Not relevant for inorganic substances
assessment		
Additional ecological		Do not allow to enter ground water, waterways or waste w
information	•	
Di-n-octyltin-bis-(2-ethylhe)	v\/l+k	pioglycolate):
Environmental fate and	- yıtı	not available
pathways	•	
		This substance is not considered to be receivert
Results of PBT and vPvB	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).



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Additional ecological : information	:	Do not allow to enter ground water, waterways or waste water.
C.I. Pigment White 6:		
Environmental fate and strain	:	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.
Polyvinyl chloride:		
Environmental fate and pathways	:	no data available
Results of PBT and vPvB assessment	:	Remarks: Not applicable
Additional ecological : information	:	Has not been tested due to insolubility in 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**

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

NPRI Components :	Chromium (III) compound Antimony compounds Manganese Compound Copper Compound
The components of this produ	ict 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.



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

Full text of other abbreviation	ons	
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
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
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
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA Z-3 / TWA	:	8-hour time weighted average

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; CPR - Controlled Products Regulations; 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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