

RENOL-BROWN SB83800050-ZN

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Substance key: 000000889200	Revision Date: 07/26/2021
Version : 1 - 0 / CDN	Date of printing :07/28/2021

SECTION 1. IDENTIFICATION

Identification of the	Avient Colorants Canada Inc.					
company:	2 Lone Oak Court Toronto, Ontario, M9C 5R9					
	Telephone No.: +1 514-832-2559					
	Information of the substance/preparation: Product Stewardship					
	e-mail: SDS.NORAMMB@Clariant.com					
	Emergency tel. number: +1 CANUTEC (613) 996-6666					
Trade name:	RENOL-BROWN SB83800050-ZN					
Material number:	SB83800050					
Material number: Chemical family:	SB83800050 Colourant preparation Carrier: ABS					

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Colourant preparation Carrier: ABS

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
C.I. Pigment Yellow 164	antimony compounds	68412-38-4	0.1 - 1
C.I. Pigment Black 28	C.I. Pigment Black 28	68186-91-4	0.1 - 1
Propylidynetrimethanol	Propylidynetrim ethanol	77-99-6	0.1 - 1
Aluminium oxide	Aluminium oxide	1344-28-1	1 - 5
C.I. Pigment White 6	C.I. Pigment	13463-67-7	10 - 30



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White		
1910.1200) and by the Canad 17)., The hazardous ingredien	lian \ nts of envi ge is	dous by the OSHA Hazard Communication Standard (29 CFR WHMIS 2015 Hazardous Products Regulations (SOR/2015- f this product are encapsulated, therefore the material is not ronmental hazards as exposure is not expected., Any a due to batch variation.
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. In case of burns apply cold water until pain subsides then seek medical advice. Burns must be treated by a physician. If molten polymer contacts the skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn. Skin absorption of reground pellets is unlikely.
In case of eye contact		Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. 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 (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during	:	In case of fire hazardous decomposition products may be



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firefighting	produced such as: Styrene Hydrogen cyanide (hydrocyanic acid) Acrylonitrile Carbon monoxide Carbon dioxide (CO2) Metal oxides Take measures to prevent the build up of electrostatic charg
	Dust can form an explosive mixture in air.
Further information	 Combustible material In the event of fire and/or explosion do not breathe fumes. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is potential dust explosion hazard. Do not allow run-off from fire fighting to enter drains or wate 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 breathin apparatus in addition to standard fire fighting gear.

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
Environmental precautions	:	Do not allow contact with soil, surface or ground water. Prevent product from entering drains.
Methods and materials for containment and cleaning up	:	Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Sweep up and shovel into suitable containers for disposal. Take up uncontaminated material and pass on for further processing. After cleaning, flush away traces with water.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Take measures to prevent the build up of electrostatic charge.
Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation/personal protection. For personal protection see section 8. Avoid contact with skin, eyes and clothing.



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	Use only with adequate ventilation. When handling hot melts use suitable protective clothing. Avoid dust formation. Keep away from sources of ignition. Lead off electrostatic charges.
Conditions for safe storage :	Keep container tightly closed in a cool, well-ventilated place. Protect from moisture. Keep away from direct sunlight.
Further information on : storage conditions	Store in a cool, dry, well-ventilated area. Keep container sealed when not in use. Keep in an area equipped with sprinklers. Minimize dust generation and accumulation.
Materials to avoid :	not required

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
C.I. Pigment Yellow 164	68412-38-4	TWA	0.5 mg/m3 (antimony)	CA AB OEL
		TWA	0.2 mg/m3 (Manganese)	CA AB OEL
		TWAEV	0.5 mg/m3 (antimony)	CA QC OEL
		TWAEV (total dust)	0.2 mg/m3 (Manganese)	CA QC OEL
		TWA	0.5 mg/m3 (antimony)	CA BC OEL
		TWA (Respirable)	0.02 mg/m3 (Manganese)	CA BC OEL
		TWA (Total)	0.2 mg/m3 (Manganese)	CA BC OEL
		TWA	0.5 mg/m3 (antimony)	ACGIH
		TWA (Inhalable particulate matter)	0.1 mg/m3 (Manganese)	ACGIH
		TWA (Respirable particulate matter)	0.02 mg/m3 (Manganese)	ACGIH
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



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		TWA (Total dust)	10 mg/m3	CA BC OI
		TWÁ (respirable dust fraction)	3 mg/m3	CA BC OI
		TWAEV (total dust)	10 mg/m3	CA QC O
Aluminium oxide	1344-28-1	TWA	10 mg/m3	CA AB OB
		TWAEV (total dust)	10 mg/m3 (Aluminium)	CA QC O
		TWA (Respirable)	1 mg/m3 (Aluminium)	CA BC OI
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminium)	ACGIH
	places wh Use engin maintain a	opropriate exhaust ere dust can be ge eering controls suc irborne concentrati	nerated. h as local or genei	al exhaust to
Personal protective equips Respiratory protection	: Use NIOS manufactu generated Use respir	H/MSHA approved urer's recommendat atory protective eq d temperatures (se	tions where dust of uipment when usin	fume may be
Hand protection Remarks		ber gloves. Impervi gloves When hand loves.		
	Neoprene resistant g	gloves When hand	lling hot material, u	
Remarks	Neoprene resistant g : Safety gla : Wear prote to prevent	gloves When hand loves.	lling hot material, u lds uding long sleeves	and gloves,

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Granules

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Colour	:	brown
Odour	:	characteristic
Odour Threshold	:	Not applicable
рН	:	Not applicable
Melting point	:	> 90 °C
Boiling point	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Self-ignition	:	Not applicable
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	not available
Density	:	not tested.
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	This property is not applicable for mixtures.
Decomposition temperature	:	To the best of our current knowledge, no thermal decomposition of the product is expected if it is processed according to good manufacturing practices. See section 10.4. "Conditions to avoid"
Viscosity Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	no data available



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		no data available
Oxidizing properties	:	not available
Surface tension	:	Not relevant
Particle size	:	Product specific
CTION 10. STABILITY AND RE	AC	ΤΙVΙΤΥ
Reactivity	:	No dangerous reaction known under conditions of normal use
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use
Conditions to avoid	:	To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. Keep away from heat, sparks, open flames, and other source 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	:	Strong acids and strong bases Oxidizing agents
Hazardous decomposition products	:	No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure None known.				
Acute toxicity				
Product:				
Acute dermal toxicity		e toxicity estimate: 3,739 mg/kg nod: Calculation method		
Components:				
Propylidynetrimethanol:				
Acute oral toxicity		0 (Rat, male): 14,700 mg/kg nod: Other		
Acute dermal toxicity	: LD5	0 (Rabbit): > 10,000 mg/kg		



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	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
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 derm toxicity Remarks: not required

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 White 6:

Species: Rabbit Exposure time: 4 h

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> Method: OECD Test Guideline 404 Result: No skin irritation GLP: no

Serious eye damage/eye irritation

Product:

Result: No eye irritation

Components:

Aluminium oxide: Result: Mild eye irritation

C.I. Pigment White 6:

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

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Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline 40 Result: Not a skin sensitizer. GLP: yes Test Type: Respiratory system	6
Exposure routes: inhalation (dust, Species: Mouse Method: Other Result: Does not cause respirator GLP: No information 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



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	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.
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 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
Carcinogenicity	
Components:	
Aluminium oxide:	
Carcinogenicity - : Assessment	Carcinogenicity classification not possible from current data.
C.I. Pigment White 6: Carcinogenicity - : Assessment	Not classifiable as a human carcinogen.



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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 we 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	: Species: Rat
development	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 wei Teratogenicity: NOAEL: 503 mg/kg body weight Method: OECD Test Guideline 414
	GLP: No information available. Remarks: By analogy with a product of similar compositior
Reproductive toxicity - Assessment	 No evidence of adverse effects on sexual function and fert or on development, based on animal experiments. No teratogenic effects to be expected.
C L Diamont White 6:	
C.I. Pigment White 6: Effects on fertility	: Remarks: no data available
Effects on foetal	· Test Ture: Bra notel
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 wei Developmental Toxicity: NOAEL: 1,000 mg/kg body weigh Embryo-foetal toxicity: NOEL: 1,000 mg/kg body weight Method: OECD Test Guideline 414



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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.

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 White 6:

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 White 6:

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

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



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GLP: No information available.

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

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

Aspiration toxicity

Components:

Aluminium oxide: No aspiration toxicity classification

C.I. Pigment White 6:

No aspiration toxicity classification

Experience with human exposure

2

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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CTION 12. ECOLOGICAL INFO	RMATION	
Ecotoxicity		
-		
<u>Product:</u> Toxicity to fish		
	Remarks: no da	ita available
Components:		
Propylidynetrimethanol:		
Toxicity to fish	: LC50 (Alburnus Exposure time: Test Type: stati Method: Other	
Toxicity to daphnia and other aquatic invertebrates	: LC50 (Daphnia Exposure time: Test Type: stati Method: Other	
Toxicity to algae/aquatic plants	: EC50 (Pseudok 1,000 mg/l Exposure time: Method: Other	irchneriella subcapitata (green algae)): > 72 h
Toxicity to fish (Chronic toxicity)	: Remarks: not re	equired
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia Exposure time: Test Type: stati Method: Other	
Aluminium oxide:		
Toxicity to fish	Exposure time: Test Type: sem Analytical monit	i-static test
Toxicity to daphnia and other aquatic invertebrates	Exposure time: Test Type: stati Analytical monit	c test
Toxicity to algae/aquatic plants	: NOEC (Pseudo 0.052 mg/l End point: Grow Exposure time:	



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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 White 6: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h Test Type: static test



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	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.
	EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l End point: Growth rate



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	Exposure time: 72 h Analytical monitoring: no data available Method: ISO 10253 GLP: yes 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 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
Toxicity to microorganisms :	EC50 (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 nominal 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 nominal concentration.
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 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: >= 10 % Exposure time: 20 h End point: Growth Species: Lactuca sativa (lettuce) Analytical monitoring: yes Method: Other GLP: no Remarks: By analogy with a product of similar composition No effect on the growth was observed.



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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
Ecotoxicology Assessment	
Chronic aquatic toxicity :	This product has no known ecotoxicological effects.
Persistence and degradability	
Components:	
Aluminium oxide:	
Biodegradability :	Remarks: Not applicable
C.I. Pigment White 6:	
Biodegradability :	Remarks: Not applicable for inorganic compound.
Bioaccumulative potential	
Product:	
Bioaccumulation :	Remarks: not tested.
Components:	
Aluminium oxide:	
Bioaccumulation :	Remarks: Not applicable
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.



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Partition coefficient: n- octanol/water	•	Remarks: inorganic
Mobility in soil		
Product:		
Distribution among environmental compartments	:	Remarks: not tested.
Components:		
Aluminium oxide:		
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
Other adverse effects		
Product:		
Results of PBT and vPvB assessment	:	Remarks: No information is available as no chemical saf report (CSR) is required.
Additional ecological information	:	Do not allow to enter ground water, waterways or waste
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
C.I. Pigment White 6:		
		not available
Environmental fate and pathways	:	



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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispose of this product in accordance with all applicable local, state and federal regulations.
Contaminated packaging	:	Regulations concerning reuse or disposal of used packaging materials must be observed.

SECTION 14. TRANSPORT INFORMATION

TDG	not restricted
ΙΑΤΑ	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION

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

Canadian lists

No substances are subject to a Significant New Activity Notification.

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
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



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CA QC OEL / TWAEV NIOSH REL / TWA

Time-weighted average exposure value
 Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response: ELx - Loading rate associated with x% response: EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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

Revision Date	:	07/26/2021
Date format	:	mm/dd/yyyy

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