

RENOL-BROWN SB83800049-ZN

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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: Material number:	RENOL-BROWN SB83800049-ZN SB83800049					

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	CAS-No.	Concentration (% w/w)
	Name/Synonym		
Aluminium oxide	Aluminium oxide	1344-28-1	0.1 - 1
Propylidynetrimethanol		77-99-6	0.1 - 1
	ethanol		
Limestone	Limestone	1317-65-3	0.1 - 1
Iron(III)oxide	Iron(III)oxide	1309-37-1	0.1 - 1
C.I. Pigment Brown 24	antimony	68186-90-3	5 - 10
	compounds		5 - 10
C.I. Pigment White 6	C.I. Pigment	13463-67-7	10 - 30



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1910.1200) and by the Can 17)., The hazardous ingred	adian WHMI ients of this p nd environme ange is due t	y the OSHA Hazard Communication Standard (29 CFR S 2015 Hazardous Products Regulations (SOR/2015- product are encapsulated, therefore the material is not ental hazards as exposure is not expected., Any o batch variation.
If inhaled	Give Get in	the victim to fresh air. oxygen or artificial respiration if needed. nmediate medical advice/ attention. r give anything by mouth to an unconscious person.
In case of skin contact	minut In cas seek Burns If mol water medic	off immediately with plenty of water for at least 15 es. se of burns apply cold water until pain subsides then medical advice. must be treated by a physician. ten polymer contacts the skin, cool rapidly with cold . Do not attempt to peel polymer from skin. Obtain cal attention for thermal burn. Skin absorption of und pellets is unlikely.
In case of eye contact	for at	immediately with plenty of water, also under the eyelids, least 15 minutes. nedical attention immediately if irritation develops and sts.
If swallowed	Do No Neve	mouth. DT induce vomiting. give anything by mouth to an unconscious person. nedical advice/ attention.
Most important symptoms and effects, both acute and delayed	labelli	ossible symptoms known are those derived from the ng (see section 2). Iditional symptoms are known.

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) Sulphur oxides Metal oxides Nitrogen oxides (NOx)
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 RELEAS	SE MEASURES
Personal precautions, : protective equipment and	Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing.

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

Wash thoroughly after handling.

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.
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SECTION 7. HANDLING AND STORAGE

emergency procedures

Advice on prote fire and explos	•	:	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 Brown 24	68186-90-3	TWA	0.5 mg/m3 (antimony)	CA AB OEL
		TWAEV	0.5 mg/m3 (antimony)	CA QC OEL
		TWA	0.5 mg/m3 (antimony)	CA BC OEL
		TWA	0.5 mg/m3 (antimony)	ACGIH
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 particulate matter)	1 mg/m3 (Aluminium)	ACGIH
Limestone	1317-65-3	TWA	10 mg/m3	CA AB OEL
		TWAEV	10 mg/m3	CA QC OEL



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			(total dust)			
Iron(III)oxide		1309-37-1	TWA (Respirable)	5 mg/m3	CA AB OEL	
			TWA (Fumes)	5 mg/m3 (Iron)	CA BC OEL	
			TWA (Dust)	5 mg/m3 (Iron)	CA BC OEL	
			STEL (Fumes)	10 mg/m3 (Iron)	CA BC OEL	
			TWAEV (fume and dust)	5 mg/m3 (Iron)	CA QC OEL	
			TWA (Respirable particulate matter)	5 mg/m3	ACGIH	
Engineering measures	:	ventilation. Provide appro places where Use engineer	priate exhaust dust can be ger ng controls suc	h appropriate exhaus ventilation at machine herated. h as local or general ons below exposure	ery and at exhaust to	
Personal protective equipr	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-shie	lds		
Skin and body protection	:	Wear protective clothing, including long sleeves and gloves, to prevent skin contact. When handling hot melts use suitable protective clothing.				
Hygiene measures	:	The usual Industrial Hygiene precautions must be taken during work, in particular: do not drink, eat or smoke during the handling of the product and clean hands and face during work intervals and after work.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Granules

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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 us
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal us
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 oxidizing agents Oxidizing agents
Hazardous decomposition products	:	No decomposition if used as directed.

Information on likely rout None known.	es of exposure
Acute toxicity	
Product:	
Acute dermal toxicity	: Acute toxicity estimate: 3,535 mg/kg Method: Calculation method
Components:	
Aluminium oxide:	
Acute oral toxicity	: LD50 (Rat, male and female): > 10,000 mg/kg Method: OECD Test Guideline 401 GLP: No information available.



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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
Propylidynetrimethanol:		
Acute oral toxicity	:	LD50 (Rat, male): 14,700 mg/kg Method: Other
Acute dermal toxicity	:	LD50 (Rabbit): > 10,000 mg/kg Method: Other
Iron(III)oxide:		
Acute oral toxicity	:	LD50 (Rat, male): > 10,000 mg/kg Method: Other GLP: No information available.
Acute inhalation toxicity	:	LC0 (Rat, male): > 0.21 mg/l Exposure time: 14 d Method: OECD Test Guideline 412 GLP: yes
Acute dermal toxicity	:	Remarks: no data available
Acute toxicity (other routes of administration)	:	LD50 (Rat): 5,550 mg/kg Application Route: Intraperitoneal injection
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



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	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
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.	4
Iron(III)oxide:	
Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: No skin irritation GLP: yes	4
C.I. Pigment Brown 24:	
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	4
Serious eye damage/eye irritatio	on
Product:	
Result: No eye irritation	

Components:

Aluminium oxide: Result: Mild eye irritation

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Iron(III)oxide:

Species: rabbit eye Result: No eye irritation Exposure time: 192 h Method: OECD Test Guideline 405 GLP: yes

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.

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

Iron(III)oxide:

Test Type: Maurer optimisation test Exposure routes: Skin contact Species: Guinea pig Method: Other Result: Not a skin sensitizer. GLP: No information available.





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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.

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 Type: Chromosome abenation 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)

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	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 Result: positive GLP: No information available.
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.
Iron(III)oxide: Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 8 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: No information available. Remarks: By analogy with a product of similar composition
	Test Type: HGPRT assay Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster Concentration: 6 - 36 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: Chromosome aberration test in vitro Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster Concentration: 6,25 - 25 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes Remarks: By analogy with a product of similar composition



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Genotoxicity in vivo :	Test Type: Micronucleus test Species: Rat (male) Strain: Sprague-Dawley Application Route: oral (gavage) Exposure time: 24 h Dose: 3,75 mg/kg Method: Other 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.
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



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	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	
<u>Components:</u>	
Aluminium oxide:	
Carcinogenicity - : Assessment	Carcinogenicity classification not possible from current data.
Iron(III)oxide:	
Species: Rat, (male and female) Application Route: oral (gavage) Exposure time: 798 d Dose: 10 - 40 mg/kg Group: yes Frequency of Treatment: every ot Method: Other GLP: No information available.	ther week a, the classification criteria are not met.
Species: Rat, (male and female) Application Route: Intraperitoneal Exposure time: 790 - 914 d Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 injection Method: Other	



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GLP: No information availab Remarks: Based on availab		a, the classification criteria are not met.
Carcinogenicity - Assessment	:	Carcinogenicity classification not possible from current data
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.
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 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 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 weig 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 fert or on development, based on animal experiments. No teratogenic effects to be expected.
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.

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Effects on fertility	: Remarks: Not applicable
Effects on foetal development	: Remarks: Not applicable
Reproductive toxicity - Assessment	: No reproductive toxicity to be expected. No teratogenic effects to be expected.
C.I. Pigment Brown 24:	
Effects on fertility	 Test Type: One generation study Species: Rat, male and female Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 250 - 500 - 1000 mg/kg General Toxicity - Parent: NOAEL: >= 1,000 mg/kg body weight General Toxicity F1: NOAEL: >= 1,000 mg/kg body weight Method: OECD Test Guideline 422 GLP: yes
Effects on foetal development	 Species: Rat Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 250 - 500 - 1000 mg/kg General Toxicity Maternal: NOAEL: >= 1,000 mg/kg body weight Teratogenicity: NOAEL: >= 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 fert or on development, based on animal experiments. Did not show teratogenic effects in animal experiments.



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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.

Iron(III)oxide:

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

C.I. Pigment Brown 24:

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

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.

Iron(III)oxide:

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

C.I. Pigment Brown 24:

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

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



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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.

Iron(III)oxide:

Species: Rat, male Application Route: oral (feed) Exposure time: 21 d Number of exposures: daily Dose: 112,3 - 330,1 mg/100g diet Group: yes Method: Repeated Dose Toxicity (subacute study) GLP: yes Target Organs: Liver Remarks: No adverse effect has been observed in chronic toxicity tests.

Species: Rat, male Application Route: Inhalation Exposure time: 2 w Number of exposures: 6 hours/day, 5 days/week Dose: 185,2- 195,7 - 210,2 mg/m3 Group: yes Method: OECD Test Guideline 412 GLP: yes Remarks: No adverse effect has been observed in chronic toxicity tests.

Application Route: Skin contact Method: Repeated Dose Toxicity (subacute study) 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

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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 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

Iron(III)oxide:

No aspiration toxicity classification

C.I. Pigment Brown 24:

No aspiration toxicity classification

C.I. Pigment White 6:

No aspiration toxicity classification

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ubstance key: 000000889199 ersion : 1 - 0 / CDN	Revision Date: 07/26/202 Date of printing :07/28/202
	Date of printing 101/20/202
Experience with human expo	osure
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 possik	ble.
CTION 12. ECOLOGICAL INFO	RMATION
Ecotoxicity	
Product:	
Toxicity to fish	:
	Remarks: no data available
Components:	
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	Exposure time: 48 h Test Type: static test
	Analytical monitoring: yes
	Method: OECD Test Guideline 202 GLP: yes
T	
Toxicity to algae/aquatic plants	 NOEC (Pseudokirchneriella subcapitata (green algae)): >= 0.052 mg/l
	End point: Growth rate
	Exposure time: 72 h 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



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		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.
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



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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
Iron(III)oxide:		
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): approx. 100,000 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: no data available Method: Umweltbundesamt, 1984 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	:	Remarks: no data available
Toxicity to fish (Chronic toxicity)	:	Remarks: not reasonable
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: not reasonable
Toxicity to microorganisms	:	EC50 (activated sludge of a predominantly domestic sewage): > 10,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Method: ISO 8192 GLP: no
Toxicity to soil dwelling organisms	:	Remarks: The study is not necessary from a scientific perspective.
Plant toxicity	:	Remarks: The study is not necessary from a scientific perspective.
Sediment toxicity	:	Remarks: The study is not necessary from a scientific perspective.



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Toxicity to terrestrial organisms	: Remarks: The study is not necessary from a scientific perspective.
C.I. Pigment Brown 24:	
Toxicity to fish	 LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412 T.15 GLP: no Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic plants	 EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic toxicity)	: Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: Remarks: not required
Toxicity to microorganisms	 EC50 (Pseudomonas putida): > 10,000 mg/l 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

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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/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.



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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 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

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		oduct does not have any known adverse effect on the anisms tested.
Plant toxicity	Exposu End po Specie Analytic Methoc GLP: n Remarl	>= 10 % are time: 20 h int: Growth s: Lactuca sativa (lettuce) cal monitoring: yes l: Other o ks: By analogy with a product of similar composition ct on the growth was observed.
Sediment toxicity	Analytic Sedime Exposu Nomina Basis fr Methoo GLP: n	(Hyalella azteca (Scud)): >= 100000 % cal monitoring: no ent: artificial soil ure duration: 28 d al / Measured: nominal or effect: mortality I: Other o ks: By analogy with a product of similar composition
	Analytic Sedime Exposu Nomina Basis fo	>= 14989 mg/kg dry weight (d.w.) cal monitoring: no data available ent: Natural sediment ire duration: 10 d al / Measured: nominal or effect: mortality l: Other es
Ecotoxicology Assessment		
Chronic aquatic toxicity	: This pr	oduct has no known ecotoxicological effects.
Persistence and degradabili	tv	
	-	
Components:		
<u>Components:</u> Aluminium oxide:		
	: Remarl	ks: Not applicable
Aluminium oxide:	: Remarl	<s: applicable<="" not="" td=""></s:>
Aluminium oxide: Biodegradability		ks: Not applicable ks: Not applicable for inorganic compound.
Aluminium oxide: Biodegradability Iron(III)oxide:	: Remarl	
Aluminium oxide: Biodegradability Iron(III)oxide: Biodegradability Physico-chemical	: Remarl	ks: Not applicable for inorganic compound.
Aluminium oxide: Biodegradability Iron(III)oxide: Biodegradability Physico-chemical removability	: Remarl : Remarl	ks: Not applicable for inorganic compound.



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removability		water by biological purification processes.
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
Iron(III)oxide:		
Bioaccumulation	:	Remarks: Does not accumulate in organisms.
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
Mobility in soil		
Product:		
Distribution among environmental compartments	:	Remarks: not tested.
Components:		
Aluminium oxide:		
Distribution among environmental compartments	:	Remarks: Not applicable
Iron(III)oxide:		
Mobility	:	Remarks: Known distribution to environmental compartment



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environmental compartments		
C.I. Pigment Brown 24: Distribution among	:	Remarks: Not applicable
environmental compartments		
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 safety report (CSR) is required.
Additional ecological information	:	Do not allow to enter ground water, waterways or waste wat
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 wat
Iron(III)oxide:		
Environmental fate and pathways	:	not available
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 wat
C.I. Pigment Brown 24:		
Environmental fate and pathways	:	not available
Results of PBT and vPvB	:	The substance is inorganic, thus a PBT and vPvB criteria



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assessment	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.

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	: Chromium (III) compound
	Antimony compounds

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)



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Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Canada. British Columbia OEL
Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
8-hour, time-weighted average
8-hour Occupational exposure limit
8-hour time weighted average
short-term exposure limit
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; 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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