

RENOL-SFR CHAMPAGNE-PN

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SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Plastics & Coating USA LLC 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000		
	Information of the substance/preparation: BU Masterbatches Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com		
	Emergency tel. number: 800-424-9300 (CHEMTREC)		
Trade name: Material number:	RENOL-SFR CHAMPAGNE-PN EV82800002		
Chemical family:	Colourant preparation Carrier: PVC		

Primary product use: Additive for plastic material processing

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord Skin sensitisation	dan :	ce with the Hazardous Products Regulations Category 1
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (Lungs)
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure if swallowed. H373 May cause damage to organs () through prolonged or



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	repeated exposure.
Precautionary statements :	Prevention:
	 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection face protection.
	 Response: P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice attention. P363 Wash contaminated clothing before reuse.
	Storage:

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

Components

Chemical name	CAS-No.	Concentration (% w/w)
C.I. Pigment Yellow 164	68412-38-4	0.1 - 1
Aluminium oxide	1344-28-1	0.1 - 1
Calcium distearate	1592-23-0	0.1 - 1
Reaction mass of fatty acids, montan wax and fatty acids, montan wax, ethylene acids and montan wax	Not Assigned	1 - 5
	68186-90-3	1 - 5
Di-n-octyltin-bis-(2- ethylhexylthioglycolate)	15571-58-1	1 - 5
C.I. Pigment White 6	13463-67-7	10 - 30
Mica-Group minerals	12001-26-2	10 - 30
Polyvinyl chloride	9002-86-2	30 - 60

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



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SECTION 4. FIRST AID MEASURES

General advice	:	Ensure that the First Aid Personnel are aware of the product involved, and take precautions to protect themselves (e.g. wear personal protection equipment). Get medical advice/ attention if you feel unwell.
If inhaled	:	Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.
In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. Wash off with soap and water. Get medical attention if irritation develops and persists.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
If swallowed	:	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/ attention.
Most important symptoms and effects, both acute and delayed	:	The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	In case of fire hazardous decomposition products may be produced such as: Hydrogen chloride Carbon monoxide Carbon dioxide (CO2) Sulphur oxides Metal oxides



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Further information	During a fire, in generated by t Avoid generati concentrations potential dust o Do not allow ru courses. Fire residues a	naterial fire and/or explosion do not breathe fumes. ritating and highly toxic gases may be hermal decomposition or combustion ng dust; fine dust dispersed in air in sufficient , and in the presence of an ignition source is a explosion hazard. In-off from fire fighting to enter drains or water and contaminated fire extinguishing water must in accordance with local regulations.
Special protective equipment for firefighters		ved positive pressure self-contained breathing dition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
Environmental precautions	:	Do not allow contact with soil, surface or ground water. Prevent product from entering drains.
Methods and materials for containment and cleaning up	:	Non-sparking tools should be used. Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Take measures to prevent the build up of electrostatic charge.
Advice on safe handling	:	 Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation/personal protection. For personal protection see section 8. Avoid contact with skin, eyes and clothing. Use only with adequate ventilation. Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Ensure all equipment is electrically grounded before beginning transfer operations. Use only non-sparking tools.
Conditions for safe storage	:	Keep container tightly closed in a cool, well-ventilated place. Protect from moisture.



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	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 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 fraction)	0.1 mg/m3 (Manganese)	ACGIH
		TWA (Respirable fraction)	0.02 mg/m3 (Manganese)	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



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I	I			
		TWA	3 mg/m3	CA BC OF
		(respirable		
		dust fraction)		CA QC OI
		TWAEV	10 mg/m3	
Aluminium oxide	1344-28-1	(total dust) TWA	10 mg/m3	CA AB OE
	1344-20-1	TWAEV	10 mg/m3	
		(total dust)	(Aluminium)	
		TWA	1 mg/m3	CA BC OF
		(Respirable)	(Aluminium)	
		TWA	1 mg/m3	ACGIH
		(Respirable	(Aluminium)	////
		fraction)	(/ dammarr)	
Calcium distearate	1592-23-0	TWA	10 mg/m3	CA AB OE
		TWA	10 mg/m3	CA BC O
		TWA	10 mg/m3	ACGIH
		(Inhalable		
		fraction)		
		TWA	3 mg/m3	ACGIH
		(Respirable	-	
		fraction)		
Polyvinyl chloride	9002-86-2	TWA	1 mg/m3	CA BC OF
		(Respirable)		
		TWAEV	10 mg/m3	CA QC O
		(total dust)		
		TWA	1 mg/m3	ACGIH
		(Respirable		
Miss Crown minerole	10001.00.0	fraction)	2	
Mica-Group minerals	12001-26-2	TWA (Respirable)	3 mg/m3	CA AB OB
		(Respirable) TWA	3 mg/m3	CA BC OF
		(Respirable)	5 mg/m5	
		TWAEV	3 mg/m3	CA QC O
		(respirable	o mg/mo	0,1 00 01
		dust)		
		TWA	3 mg/m3	ACGIH
		(Respirable	Ŭ	
		fraction)		

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Use engineering controls such as local or general exhaust to

maintain airborne concentrations below exposure limits.

Personal protective equipment

Respiratory protection	:	If dusty conditions exist, use NIOSH approved respirator with high efficiency (p-100) filter media.
Hand protection Remarks	:	Nitrile rubber gloves. Impervious butyl rubber gloves PVC



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	Neoprene gloves
Eye protection :	Safety glasses with side-shields
Skin and body protection :	Wear protective clothing, including long sleeves and gloves, to prevent skin contact.
Hygiene measures :	The usual Industrial Hygiene precautions must be taken during work, in particular: do not drink, eat or smoke during the handling of the product and clean hands and face during work intervals and after work.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	brown
Odour	:	characteristic
Odour Threshold	:	Not applicable
рН	:	Not applicable
Melting point	:	> 70 °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	:	not determined



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Partition coefficient: n- octanol/water	: This property is not applicable for mixtures.
Decomposition temperature	e : > 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 reactions	:	Lithium
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. Keep away from heat. Keep away from flames and sparks.
Incompatible materials	:	Strong oxidizing agents none Strong acids and oxidizing agents
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

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higher than 300 J/g.

SECTION 11. TOXICOLOGICAL INFORMATION Information on likely routes of exposure Inhalation Eye contact Skin contact Acute toxicity Product: Acute toxicity estimate: 87.5 mg/l Acute inhalation toxicity Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Acute dermal toxicity Acute toxicity estimate: > 5,000 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. 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: ves Assessment: The substance or mixture has no acute inhalation toxicity Acute dermal toxicity Remarks: Not applicable : Calcium distearate: Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes LC50 (Rat): > 3 mg/l Acute inhalation toxicity Exposure time: 4 h Method: OECD Test Guideline 403 GLP: yes Remarks: By analogy with a product of similar composition Acute dermal toxicity LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes



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	Remarks: By analog	gy with a product of similar composition
Reaction mass of fatty acids montan wax:	nontan wax and fatty	/ acids, montan wax, ethylene acids and
Acute oral toxicity	LD50 (Rat, male and Method: OECD Tes GLP: yes	d female): > 2,000 mg/kg t Guideline 401
Acute inhalation toxicity	Remarks: not requir	ed
Acute dermal toxicity	LD50 (Rat, male and Method: OECD Tes GLP: yes	d female): > 2,000 mg/kg t Guideline 402
C.I. Pigment Brown 24:		
Acute oral toxicity	LD50 (Rat, male and Method: BASF test GLP: no	d female): > 10,000 mg/kg
Acute inhalation toxicity	Remarks: Not applic	cable
Acute dermal toxicity	Remarks: Not applic	cable
Di-n-octyltin-bis-(2-ethylhexy	hioglycolate):	
Acute oral toxicity	•••	d female): 2,000 mg/kg t Guideline 401
Acute inhalation toxicity	Remarks: Not applic	cable
Acute dermal toxicity	LD50 (Rat, male and Method: OECD Tes GLP: yes	d female): > 2,000 mg/kg t Guideline 402
C.I. Pigment White 6:		
Acute oral toxicity	LD50 (Rat, female): Method: OECD Tes GLP: no	
Acute inhalation toxicity	Exposure time: 4 h Test atmosphere: de Method: OECD Tes GLP: no	
Acute dermal toxicity	Assessment: The su toxicity Remarks: not requir	ubstance or mixture has no acute dermal ed



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Polyvinyl chloride:

Acute oral toxicity	: Remarks: Not relevant
Acute inhalation toxicity	: Assessment: The substance or mixture has no acute 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.

Calcium distearate:

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

Reaction mass of fatty acids, montan wax and fatty acids, montan wax, ethylene acids and montan wax:

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

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

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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:

Result: Mild eye irritation

Calcium distearate:

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

Reaction mass of fatty acids, montan wax and fatty acids, montan wax, ethylene acids and montan wax:

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

C.I. Pigment Brown 24:

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

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

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Method: OECD Test Guideline 405 GLP: No information available.

Polyvinyl chloride:

Remarks: This information is not available.

Respiratory or skin sensitisation

Product:

Result: Causes sensitisation.

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

Calcium distearate:

Test Type: Local lymph node assay (LLNA) Exposure routes: Dermal Species: Mouse Method: OECD Test Guideline 429 Result: Not a skin sensitizer. GLP: yes Remarks: By analogy with a product of similar composition

Test Type: Respiratory system Exposure routes: Inhalation Remarks: This information is not available.

Reaction mass of fatty acids, montan wax and fatty acids, montan wax, ethylene acids and montan wax:

Test Type: Local lymph node assay (LLNA) Exposure routes: Dermal Species: Mouse Method: OECD Test Guideline 429 Result: Not a skin sensitizer. GLP: yes



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C.I. Pigment Brown 24:

Remarks: Not applicable

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: 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.

Polyvinyl chloride:

Exposure routes: Skin contact Result: not known

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

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Genotoxicity in vivo :	Test Type: Chromosome Aberration Test Species: Rat (female) Strain: wistar Cell type: Bone marrow Application Route: oral (gavage) Exposure time: Single exposure Dose: 500 - 1000 - 2000 mg/kg Method: OECD Test Guideline 475 Result: positive GLP: No information available. Test Type: Micronucleus test
	Species: Rat (female) Strain: wistar Cell type: Bone marrow Application Route: oral (gavage) Exposure time: Single exposure Dose: 500 - 1000 - 2000 mg/kg Method: OECD Test Guideline 474 Result: positive GLP: No information available.
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.
Calcium distearate:	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative GLP: yes
	Test Type: In vitro gene mutation study in mammalian cells Test system: mouse lymphoma cells Method: OECD Test Guideline 476 Result: negative GLP: yes Remarks: By analogy with a product of similar composition
	Test Type: Cytogenetic assay Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster Method: OECD Test Guideline 473 Result: negative GLP: yes Remarks: By analogy with a product of similar composition
Germ cell mutagenicity - : Assessment	It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Reaction mass of fatty acids, montan wax and fatty acids, montan wax, ethylene acids and montan wax:



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Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 4 - 10000 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: 0,3 - 35 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes
	Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Concentration: 4,4 - 560 µf/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
Germ cell mutagenicity - : Assessment	In vitro tests did not show mutagenic effects
C.I. Pigment Brown 24:	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 100 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
	Test Type: Ames test Test system: Escherichia coli Concentration: 2,5 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Concentration: 0,5 - 900 μg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative GLP: yes
	Test Type: In vitro gene mutation study in mammalian cells



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	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.
Di-n-octyltin-bis-(2-ethylhexyltl	nioglycolate):
Genotoxicity in vitro :	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
	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 :	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
	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.



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C.I. Pigment White 6:		
	:	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
Polyvinyl chloride:		
Genotoxicity in vitro	:	Remarks: Not applicable
Germ cell mutagenicity - Assessment	:	No information available.
Carcinogenicity		
Components:		
Aluminium oxide:		
Carcinogenicity - Assessment	:	Carcinogenicity classification not possible from current data.
Calcium distearate:		
Carcinogenicity - Assessment	:	Not classifiable as a human carcinogen.



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Carcinogenicity - Assessment	: Animal testing did not show any carcinogenic effects.
C.I. Pigment Brown 24:	
Carcinogenicity - Assessment	: Not classifiable as a human carcinogen.
Di-n-octyltin-bis-(2-ethylh	nexylthioglycolate):
Carcinogenicity - Assessment	: No information available.
C.I. Pigment White 6:	
Carcinogenicity - Assessment	: Not classifiable as a human carcinogen.
Polyvinyl chloride:	
Carcinogenicity - Assessment	: No information available.
Reproductive toxicity	
<u>Components:</u>	
Components:	: Species: Rat, male and female
<u>Components:</u> Aluminium oxide:	Strain: Sprague-Dawley
<u>Components:</u> Aluminium oxide:	Strain: Sprague-Dawley Application Route: Drinking water
<u>Components:</u> Aluminium oxide:	Strain: Sprague-Dawley Application Route: Drinking water Dose: 57 - 189 - 567 mg/kg General Toxicity - Parent: NOAEL: ca. 567 mg/kg body weigl General Toxicity F1: NOAEL: ca. 57 mg/kg body weight Method: Other
<u>Components:</u> Aluminium oxide:	Strain: Sprague-Dawley Application Route: Drinking water Dose: 57 - 189 - 567 mg/kg General Toxicity - Parent: NOAEL: ca. 567 mg/kg body weigh General Toxicity F1: NOAEL: ca. 57 mg/kg body weight
Components: Aluminium oxide: Effects on fertility Effects on foetal	Strain: Sprague-Dawley Application Route: Drinking water Dose: 57 - 189 - 567 mg/kg General Toxicity - Parent: NOAEL: ca. 567 mg/kg body weigh General Toxicity F1: NOAEL: ca. 57 mg/kg body weight Method: Other GLP: yes Remarks: By analogy with a product of similar composition : Species: Rat
Components: Aluminium oxide: Effects on fertility Effects on foetal	 Strain: Sprague-Dawley Application Route: Drinking water Dose: 57 - 189 - 567 mg/kg General Toxicity - Parent: NOAEL: ca. 567 mg/kg body weigh General Toxicity F1: NOAEL: ca. 57 mg/kg body weight Method: Other GLP: yes Remarks: By analogy with a product of similar composition Species: Rat Strain: wistar
Components: Aluminium oxide: Effects on fertility Effects on foetal	Strain: Sprague-Dawley Application Route: Drinking water Dose: 57 - 189 - 567 mg/kg General Toxicity - Parent: NOAEL: ca. 567 mg/kg body weigh General Toxicity F1: NOAEL: ca. 57 mg/kg body weight Method: Other GLP: yes Remarks: By analogy with a product of similar composition : Species: Rat
Components: Aluminium oxide: Effects on fertility	 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 Species: Rat Strain: wistar Application Route: oral (gavage) Dose: 126 - 251 - 503 mg/kg Frequency of Treatment: 2 daily
Components: Aluminium oxide: Effects on fertility Effects on foetal	 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 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
Components: Aluminium oxide: Effects on fertility Effects on foetal	 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 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



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Calcium distearate:	
Effects on fertility	 Species: Rat Application Route: Oral General Toxicity - Parent: NOAEL: > 1,000 mg/kg body weight General Toxicity F1: NOAEL: > 1,000 mg/kg body weight Method: OECD Test Guideline 421 GLP: yes
Effects on foetal development	 Species: Rat Application Route: Oral Teratogenicity: NOAEL: > 1,000 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes Remarks: By analogy with a product of similar composition
Reproductive toxicity - Assessment	: No reproductive toxicity to be expected. No teratogenic effects to be expected.
Reaction mass of fatty ac montan wax:	cids, montan wax and fatty acids, montan wax, ethylene acids a
Effects on fertility	 Test Type: One generation study Species: Rat, male and female Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 10 - 100 - 1000 mg/kg Duration of Single Treatment: > 52 d Frequency of Treatment: 1 daily General Toxicity - Parent: NOAEL: 1,000 mg/kg body weigh General Toxicity F1: NOAEL: 1,000 mg/kg body weight Method: OECD Test Guideline 421 GLP: yes
Effects on foetal development	 Test Type: Pre-natal Species: Rat, female Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 50 - 250 - 1000 mg/kg Duration of Single Treatment: 13 d Frequency of Treatment: 1 daily General Toxicity Maternal: NOAEL: 1,000 mg/kg body weig Teratogenicity: NOAEL: > 1,000 mg/kg body weight Developmental Toxicity: NOAEL: > 1,000 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertil or on development, based on animal experiments.



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	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.
Di-n-octyltin-bis-(2-ethylhexyltl	nioglycolate):
Effects on fertility :	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
Effects on foetal : development	Species: Rabbit Strain: New Zealand white Application Route: oral (gavage) Dose: 4 - 20 - 80 mg/kg General Toxicity Maternal: NOAEL: 20 mg/kg body weight Teratogenicity: NOAEL: 80 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes
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 :	Test Type: Pre-natal



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development	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: NOAEL: 1,000 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes Remarks: No significant adverse effects were reported
Reproductive toxicity - : Assessment	No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments. Did not show teratogenic effects in animal experiments.
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:

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.

Calcium distearate:

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

Reaction mass of fatty acids, montan wax and fatty acids, montan wax, ethylene acids and montan wax:

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.

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

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



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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:

Aluminium oxide:

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

Calcium distearate:

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

Reaction mass of fatty acids, montan wax and fatty acids, montan wax, ethylene acids and montan wax:

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.

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

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.

Calcium distearate:

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

Reaction mass of fatty acids, montan wax and fatty acids, montan wax, ethylene acids and montan wax:

Species: Rat, male and female NOAEL: 1000 mg/kg bw/day Application Route: oral (gavage) Exposure time: > 70 d Number of exposures: once daily Dose: 10 - 100 -1000 mg/kg Group: yes Method: OECD Test Guideline 422 GLP: yes

C.I. Pigment Brown 24:

Species: Rat, male and female NOAEL: 500 mg/kg Application Route: oral (feed) Exposure time: 90 d Number of exposures: daily Dose: 0,5 - 5 - 50 - 500 mg/kg Group: yes Method: OECD Test Guideline 408 GLP: No information available.



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Application Route: Inhalation Remarks: not tested.

Application Route: Skin contact Remarks: not tested.

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

Calcium distearate:

No aspiration toxicity classification



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Reaction mass of fatty acids, montan wax and fatty acids, montan wax, ethylene acids and montan wax:

No aspiration toxicity classification

C.I. Pigment Brown 24:

No aspiration toxicity classification

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

No aspiration toxicity classification

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.

SECTION 12. ECOLOGICAL INFORMATION

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



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ion : 1 - 1 / CDN		Date of printing :05/02/201
Toxicity to daphnia and other aquatic invertebrates	:	NOEC (Daphnia magna (Water flea)): > 0.071 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): >= 0.052 mg/l End point: Growth rate Exposure time: 72 h 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	:	Remarks: Not applicable



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organisms	
Ecotoxicology Assessment	
Acute aquatic toxicity	: This product has no known ecotoxicological effects.
Chronic aquatic toxicity	: This product has no known ecotoxicological effects.
Calcium distearate:	
Toxicity to fish	 LC50 (Orycias latipes): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	 EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic toxicity)	: Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	 NOEC (Daphnia magna (Water flea)): > 0.22 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to microorganisms	 EC50 (activated sludge): > 1,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Method: OECD Test Guideline 209 GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to soil dwelling organisms	: Remarks: Not applicable
Plant toxicity	: Remarks: Not applicable
Sediment toxicity	: Remarks: no data available

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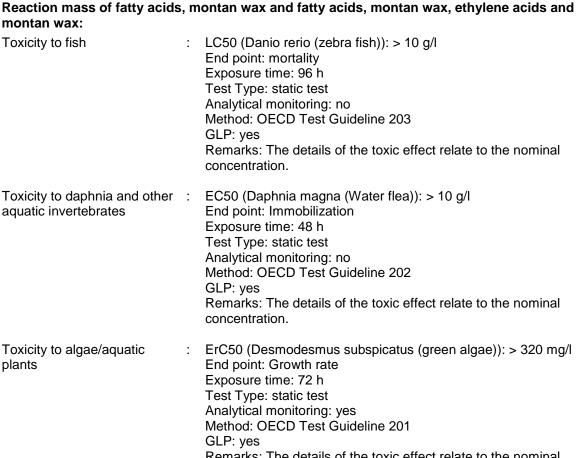
Toxicity to terrestrial

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organisms

plants

:



Remarks: Not applicable

Remarks: The details of the toxic effect relate to the nominal concentration. ErC10 (Desmodesmus subspicatus (green algae)): > 320 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: ves Remarks: The details of the toxic effect relate to the nominal

Toxicity to fish (Chronic Remarks: not required 2 toxicity) Toxicity to daphnia and other : NOELR (Daphnia magna (Water flea)): 100 mg/l

concentration.

aquatic invertebrates End point: Reproduction rate Exposure time: 21 d (Chronic toxicity) Test Type: semi-static test Analytical monitoring: no



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rsion : 1 - 1 / CDN	Date of printing :05,	/02/201
	Method: OECD Test Guideline 211 GLP: yes Remarks: The details of the toxic effect relate to the ne concentration.	ominal
Toxicity to microorganisms	EC50 (activated sludge): > 10 g/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: Respiration inhibition Analytical monitoring: no Method: OECD Test Guideline 209 GLP: yes Remarks: The details of the toxic effect relate to the ne concentration.	ominal
Toxicity to soil dwelling organisms	Test Type: artificial soil NOEC (Eisenia fetida (earthworms)): 1,000 mg/kg Exposure time: 14 d End point: mortality Method: OECD Test Guideline 207 GLP: yes	
	Test Type: artificial soil NOEC (Eisenia fetida (earthworms)): 1,000 mg/kg Exposure time: 14 d End point: mortality Method: OECD Test Guideline 207 GLP: yes	
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 ne concentration.	ominal
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 ne concentration.	ominal
Toxicity to algae/aquatic plants	EC50 (Desmodesmus subspicatus (green algae)): > 1 End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no	00 mg/l



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sion : 1 - 1 / CDN		Date of printing :05/02/201
		Method: OECD Test Guideline 201 GLP: yes Remarks: The details of the toxic effect relate to the nominal
		concentration.
Toxicity to fish (Chronic toxicity)	:	Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: not required
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 10,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 0.5 h Test Type: aquatic Analytical monitoring: no Method: DIN 38412 T.27 GLP: no Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to soil dwelling organisms	:	Remarks: Not applicable
Plant toxicity	:	Remarks: Not applicable
Sediment toxicity	:	Remarks: Not applicable
Toxicity to terrestrial organisms	:	Remarks: Not applicable
Di-n-octyltin-bis-(2-ethylhex	ylth	nioglycolate):
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 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/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 0.17 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes



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rsion : 1 - 1 / CDN		Date of printing :05/02/201
		GLP: yes
		NOEC (Desmodesmus subspicatus (green algae)): 0.04 mg/l 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 nominal concentration.
Toxicity to soil dwelling organisms	:	Remarks: Not applicable
Plant toxicity	:	Remarks: Not applicable
Sediment toxicity	:	Remarks: Not applicable
Toxicity to terrestrial organisms	:	Remarks: Not applicable
C.I. Pigment White 6:		
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



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	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 Exposure time: 72 h Analytical monitoring: no data available



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	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
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/aquatic : plants	:	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 : organisms		Remarks: Not applicable
Plant toxicity :		Remarks: Not applicable
Sediment toxicity :		Remarks: Not applicable
Toxicity to terrestrial : organisms	:	no toxicity, except ingestion Remarks: Not applicable
Persistence and degradability	/	

Components:

Aluminium oxide:

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Biodegradability :	Remarks: Not applicable	
Calcium distearate:		
Biodegradability :	Result: Readily biodegradable. Biodegradation: 93 % Method: OECD Test Guideline 301C	
	Result: Readily biodegradable. Biodegradation: 99 % Method: OECD Test Guideline 301B	
Reaction mass of fatty acids, n montan wax:	nontan wax and fatty acids, montan wax, ethylene acids and	
Biodegradability :	aerobic Inoculum: activated sludge Concentration: 4 mg/l Biochemical Oxygen Demand (BOD) Result: Not readily biodegradable. Biodegradation: 54 % Exposure time: 28 d Method: OECD Test Guideline 301D GLP: yes	
Stability in water :	Remarks: Not applicable	
C.I. Pigment Brown 24:		
Biodegradability :	Remarks: Not applicable for inorganic compound.	
Physico-chemical : removability	Remarks: Inorganic product, cannot be eliminated from the water by biological purification processes.	
Di-n-octyltin-bis-(2-ethylhexylt	hioglycolate):	
Biodegradability :	aerobic Inoculum: activated sludge Concentration: 50 mg/l Biochemical Oxygen Demand (BOD) Result: Not readily biodegradable. Biodegradation: 30 - 40 % Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes	
C.I. Pigment White 6: Biodegradability :	Remarks: Not applicable for inorganic compound.	
Polyvinyl chloride: Biodegradability :	Result: Not readily biodegradable. Remarks: The polymer is too large to be bioavailable.	



CLARIANT

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		Not applicable due to insolubility in water. This product doe not come into contact with the effluent when it is used for it purpose, otherwise it can be removed by filtration operations.
Bioaccumulative potential	l	
Product:		
Bioaccumulation	:	Remarks: not tested.
Components:		
Aluminium oxide:		
Bioaccumulation	:	Remarks: Not applicable
Calcium distearate:		
Bioaccumulation	:	Remarks: Due to the low logPow bioaccumulation is not expected
Reaction mass of fatty aci montan wax:	ds, m	ontan wax and fatty acids, montan wax, ethylene acids a
Partition coefficient: n- octanol/water	:	log Pow: 0.9 (20 °C) pH: 7 Method: other (calculated)
C.I. Pigment Brown 24:		
Bioaccumulation	:	Remarks: Not relevant for inorganic substances
Di-n-octyltin-bis-(2-ethylhe	exylth	ioglycolate):
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-	:	Remarks: inorganic



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Polyvinyl chloride:		
Bioaccumulation	:	Remarks: Not applicable
Mobility in soil		
Product:		
Distribution among	:	Remarks: not tested.
environmental compartments		
Components:		
Aluminium oxide:		
Distribution among	:	Remarks: Not applicable
environmental compartments		
C L Diamont Prown 24		
C.I. Pigment Brown 24: Distribution among	:	Remarks: Not applicable
environmental compartments	•	
Di-n-octyltin-bis-(2-ethylhex	yltł	
Distribution among environmental compartments	:	Remarks: Not applicable
environmental compartments		
C.I. Pigment White 6:		
Mobility	:	Remarks: Adsorption to solid soil phase is possible.
Distribution among		Adsorption/Soil
environmental compartments	•	Medium: water - soil
		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 safety
assessment	•	report (CSR) is required.
Additional ecological		Do not allow to enter ground water, waterways or waste wate
information	•	Do not allow to onter ground water, waterways or waste wat
Components:		
Aluminium oxide:		
Environmental fate and	:	not available
pathways		



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Results of PBT and vPvB assessment	:	Remarks: Not applicable
Additional ecological information	:	Do not allow to enter ground water, waterways or waste wate
Calcium distearate:		
Results of PBT and vPvB assessment	:	The substance is not identified as a PBT or as a vPvB substance.
Additional ecological information	:	Do not allow to enter ground water, waterways or waste wat
Reaction mass of fatty acie montan wax:	ds, m	ontan wax and fatty acids, montan wax, ethylene acids a
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	:	The product should not be allowed to enter drains, water courses or the soil.
C.I. Pigment Brown 24:		
Environmental fate and pathways	:	not available
Results of PBT and vPvB assessment	:	The substance is inorganic, thus a PBT and vPvB criteria assessment is not applicable according to Annex XIII of Regulation (EC) 1907/2006.
Additional ecological information	:	Do not allow to enter ground water, waterways or waste wat
Di-n-octyltin-bis-(2-ethylhe	exylth	nioglycolate):
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 wat
C.I. Pigment White 6:		
Environmental fate and	•	not available

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pathways		
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

TDG	not restricted
ΙΑΤΑ	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION

NPRI Components	: Chromium (III) compound Antimony compounds Manganese Compound
The components of this	product are reported in the following inventories:

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

Canadian lists

No substances are subject to a Significant New Activity Notification.





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SECTION 16. OTHER INFORMATION

Full text of other abbreviatio	ns	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA		8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value

AICS - Australian Inventory of Chemical Substances; 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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