

ABS PVC 003.000% M38538 ZESTY LIME

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Substance key: 000000650012	Revision Date: 09/22/2020
Version : 1 - 1 / CDN	Date of printing :05/19/2023

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@avient.com
	Emergency tel. number: +1 CANUTEC (613) 996-6666
	ABS PVC 003.000% M38538 ZESTY LIME SB63754429
Trade name: Material number: Chemical family:	

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	CAS-No.	Concentration (% w/w)
polychloro copper phthalocyanine	1328-53-6	0.1 - 1
Iron(III)oxide	1309-37-1	0.1 - 1
N,N'-Ethylenedi(stearamide)	110-30-5	1 - 5
C.I. Pigment White 6	13463-67-7	1 - 5

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and by the Canadian WHMIS 2015 Hazardous Products Regulations (SOR/2015-17)., The hazardous ingredients of this product are encapsulated, therefore the material is not GHS classified for health and environmental hazards as exposure is not expected., Any concentration shown as a range is due to batch variation.

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SECTION 4. FIRST AID MEASUR	SECTION 4. FIRST AID MEASURES		
If inhaled	:	Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.	
In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. In case of burns apply cold water until pain subsides then seek medical advice. Burns must be treated by a physician. If molten polymer contact the skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn. Skin absorption of reground pellets is unlikely.	
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation develops and persists.	
If swallowed	:	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/ attention.	
Most important symptoms and effects, both acute and delayed	:	The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known.	
Notes to physician	:	Treat symptomatically.	

SECTION 5. FIREFIGHTING MEASURES

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



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	Take measures to prevent the build up of electrostatic charge. Dust can form an explosive mixture in air. Metal oxides
Further information :	Combustible material In the event of fire and/or explosion do not breathe fumes. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment : for firefighters	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

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	:	Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Sweep up and shovel into suitable containers for disposal. Take up uncontaminated material and pass on for further processing. After cleaning, flush away traces with water.

SECTION 7. HANDLING AND STORAGE

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

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	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
N,N'-Ethylenedi(stearamide)	110-30-5	TWA	10 mg/m3	CA AB OEL
		TWA	10 mg/m3	CA BC OEL
		TWA (Inhalable particulate matter)	10 mg/m3	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH
polychloro copper phthalocyanine	1328-53-6	TWA	1 mg/m3 (Copper)	NIOSH REL
C.I. Pigment White 6	13463-67-7	TWA	10 mg/m3	CA AB OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWÁ (respirable dust fraction)	3 mg/m3	CA BC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
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

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Engineering measures	 Use only in area provided with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Use engineering controls such as local or general exhaust to maintain airborne concentrations below exposure limits.
Personal protective equip	ment
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 glasses with side-shields
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
Colour	:	green
Odour	:	characteristic
Odour Threshold	:	Not applicable
рН	:	Not applicable
Melting point	:	> 90 °C
Boiling point	:	Not applicable
Flash point	:	Not applicable



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Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Self-ignition	:	Not applicable
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	not available
Density	:	not tested.
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	This property is not applicable for mixtures.
Decomposition temperature	:	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 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	:	No dangerous reaction known under conditions of normal use.

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reactions	
Conditions to avoid	 To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. Keep away from heat, sparks, open flames, and other 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. Keep away from heat and sources of ignition.
Incompatible materials	: no data available Strong acids and oxidizing agents Strong acids and strong bases
Hazardous decomposition products	: No hazardous decomposition products if stored and handled as prescribed
CTION 11. TOXICOLOGICAL	INFORMATION
Information on likely route None known.	s of exposure
Information on likely route None known. Acute toxicity	s of exposure
None known.	s of exposure
None known. Acute toxicity	 s of exposure Acute toxicity estimate: 105 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
None known. Acute toxicity <u>Product:</u>	: Acute toxicity estimate: 105 mg/l Exposure time: 4 h Test atmosphere: dust/mist
None known. Acute toxicity <u>Product:</u> Acute inhalation toxicity	 Acute toxicity estimate: 105 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Acute toxicity estimate: 2,657 mg/kg
None known. Acute toxicity Product: Acute inhalation toxicity Acute dermal toxicity	 Acute toxicity estimate: 105 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Acute toxicity estimate: 2,657 mg/kg Method: Calculation method

Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	Remarks: no data available

Iron(III)oxide:

()		
Acute oral toxicity	:	LD50 (Rat, male): > 10,000 mg/kg
		Method: Other
		GLP: No information available.

Iron(III)oxide:



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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
N,N'-Ethylenedi(stearamide)	:	
Acute oral toxicity		LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 6.3 mg/l Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rabbit, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402
C.I. Pigment White 6:		
Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425 GLP: no
Acute inhalation toxicity	:	LC50 (Rat, male and female): 3.4 - 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: no Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	Assessment: The substance or mixture has no acute dermal toxicity Remarks: not required
Skin corrosion/irritation		
Product:		
Result: No skin irritation		
Components:		
polychloro copper phthalocy	yan	nine:
Species: Rabbit Method: Other Result: No skin irritation		
Species: Rabbit Method: Other	-	

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

N,N'-Ethylenedi(stearamide):

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

C.I. Pigment White 6:

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

Serious eye damage/eye irritation

Product:

Result: No eye irritation

Components:

polychloro copper phthalocyanine:

Species: Rabbit Result: No eye irritation Method: Other

Iron(III)oxide:

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

N,N'-Ethylenedi(stearamide):

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405

C.I. Pigment White 6:

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



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Respiratory or skin sensitisation

Product:

Result: non-sensitizing

Components:

polychloro copper phthalocyanine:

Test Type: Maximisation Test Species: Guinea pig Method: OECD Test Guideline 406 Result: Not a skin sensitizer. Remarks: By analogy with a product of similar composition

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.

N,N'-Ethylenedi(stearamide):

Species: Mouse Method: OECD Test Guideline 429 Result: Not a skin sensitizer.

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.



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Germ cell mutagenicity	
Components:	
polychloro copper phthalocya	inine:
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	Test Type: Mammalian cell gene mutation assay Test system: Chinese hamster fibroblasts Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative
	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo :	Test Type: gene mutation test Species: Mouse (male and female) Application Route: Intraperitoneal injection Method: OECD Test Guideline 484 Result: negative Remarks: By analogy with a product of similar composition
Germ cell mutagenicity - : Assessment	In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects
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

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	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
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.
N,N'-Ethylenedi(stearamide):	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
	Test Type: Mammalian cell gene mutation assay Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
Germ cell mutagenicity - : Assessment	In vitro tests did not show mutagenic effects
C.I. Pigment White 6:	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 333 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes

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	Test Type: Ames test Test system: Escherichia coli Concentration: 333 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
Genotoxicity in vivo :	Test Type: Micronucleus test Species: Mouse (male and female) Strain: ICR Cell type: Erythrocytes Application Route: oral (gavage) Exposure time: single treatment Dose: 500 - 1000 - 2000 mg/kg Method: OECD Test Guideline 474 Result: negative GLP: yes
Germ cell mutagenicity - : Assessment	In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects
Carcinogenicity	
Components:	
polychloro copper phthalocya	nine:
Carcinogenicity - : Assessment	No information available.
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 o Method: Other GLP: No information available. Remarks: Based on available dat	ther week ta, the classification criteria are not met.
Species: Rat, (male and female) Application Route: Intraperitonea Exposure time: 790 - 914 d Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 inject Method: Other GLP: No information available. Remarks: Based on available dat	
Carcinogenicity - : Assessment	Carcinogenicity classification not possible from current data.



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N,N'-Ethylenedi(stearamide)	:
Carcinogenicity - Assessment	: No information available.
C.I. Pigment White 6:	
Carcinogenicity - Assessment	: Not classifiable as a human carcinogen.
Reproductive toxicity	
Components:	
polychloro copper phthaloc	yanine:
Effects on foetal development	 Test Type: reproductive and developmental toxicity study Species: Rat Application Route: Oral Dose: 40, 200, 1000 mg/kg bw/day General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight Developmental Toxicity: NOAEL: 1,000 mg/kg body weight Method: OECD Test Guideline 421 Remarks: By analogy with a product of similar composition
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.
Iron(III)oxide:	
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.
N,N'-Ethylenedi(stearamide)	:
Effects on foetal development	 Test Type: Pre-natal Species: Rat Strain: Sprague-Dawley Application Route: oral (gavage) General Toxicity Maternal: NOAEL: >= 1,000 mg/kg body weight Method: OECD Test Guideline 414
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.
C.I. Pigment White 6:	
Effects on fertility	: Remarks: no data available

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Effects on foetal : development	Test Type: Pre-natal Species: Rat, female Strain: wistar Application Route: oral (gavage) Dose: 100, 300, 1000 mg/kg bw Duration of Single Treatment: 14 d Frequency of Treatment: 1 daily General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight Developmental Toxicity: NOAEL: 1,000 mg/kg body weight Embryo-foetal toxicity: NOEL: 1,000 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes Remarks: No significant adverse effects were reported
Reproductive toxicity - : Assessment	No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments. Did not show teratogenic effects in animal experiments.

STOT - single exposure

Components:

polychloro copper phthalocyanine:

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

Iron(III)oxide:

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

N,N'-Ethylenedi(stearamide):

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:

polychloro copper phthalocyanine:

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

Iron(III)oxide:

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



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N,N'-Ethylenedi(stearamide):

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:

polychloro copper phthalocyanine:

Species: Rat, male and female NOAEL: 1000 mg/kg bw/day Application Route: oral (gavage) Exposure time: 28 d Dose: 0, 100, 300, 1000 mg/kg bw/day Method: Other

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.

N,N'-Ethylenedi(stearamide):

Species: Rat, male and female NOEL: >= 1000 mg/kg bw/day Application Route: oral (gavage) Method: OECD Test Guideline 408

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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:

polychloro copper phthalocyanine: no data available

Iron(III)oxide:

No aspiration toxicity classification

N,N'-Ethylenedi(stearamide):

no data available

C.I. Pigment White 6:

No aspiration toxicity classification

Experience with human exposure

2

Product:

General Information

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

Further information

Components:

C.I. Pigment White 6:

Remarks: Lung damage possible.



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CTION 12. ECOLOGICAL INFO		MATION		
Ecotoxicity				
Product:				
Toxicity to fish	:	Remarks: no data available		
Components:				
polychloro copper phthaloc	yar	nine:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l		
-		Exposure time: 96 h		
		Test Type: static test		
		Method: OECD Test Guideline 203 Remarks: By analogy with a product of similar composition		
		Remarke. By analogy with a product of similar composition		
Toxicity to daphnia and other	:			
aquatic invertebrates		Exposure time: 48 h		
		Test Type: static test Method: Regulation (EC) No. 440/2008, Annex, C.2		
Toxicity to algae/aquatic	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l		
plants		End point: Growth rate Exposure time: 72 h		
		Test Type: static test		
		Method: OECD Test Guideline 201		
Toxicity to fish (Chronic		Remarks: no data available		
toxicity)	·	Nemarks. No data avaliable		
Toxicity to daphnia and other	:	NOEC (Daphnia magna (Water flea)): >= 1 mg/l		
aquatic invertebrates (Chronic toxicity)		End point: Reproduction rate Exposure time: 21 d		
(ernerne texterty)		Test Type: semi-static test		
		Method: OECD Test Guideline 211		
Toxicity to soil dwelling	:	Test Type: artificial soil		
organisms	•	NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg		
C .		Exposure time: 14 d		
		End point: mortality		
		Method: OECD Test Guideline 207		
Sediment toxicity	:	NOEC (Lumbriculus variegatus (Worm)): 1000 mg/kg dry		
		weight (d.w.)		
		Test Type: static test Exposure duration: 28 d		
		Method: OECD 225		
Ecotoxicology Assessment				
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.		
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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 sewag > 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.
Toxicity to terrestrial organisms	:	Remarks: The study is not necessary from a scientific perspective.
N,N'-Ethylenedi(stearamide)	:	
Toxicity to fish	:	LC50 (Oryzias latipes (Orange-red killifish)): 0.027 mg/l End point: mortality Exposure time: 96 h

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		Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0022 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (algae)): 0.053 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity)	:	Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC50 (Daphnia magna (Water flea)): 0.0056 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility
Toxicity to microorganisms	:	EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209
Toxicity to soil dwelling organisms	:	NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg Exposure time: 56 d Method: OECD Test Guideline 222
Sediment toxicity	:	NOEC: >= 1000 mg/kg dry weight (d.w.) Test Type: static test Sediment: Artificial sediment Exposure duration: 28 d Method: OECD Test Guideline 218
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.

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	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 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

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	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.
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.)



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	Analytical monitoring: no data available Sediment: Natural sediment Exposure duration: 10 d Nominal / Measured: nominal Basis for effect: mortality Method: Other GLP: yes	
Ecotoxicology Assessment		
Chronic aquatic toxicity	: This product has no known ecotoxicological effects.	
Persistence and degradabil	ty	
Components:		
polychloro copper phthaloc	yanine:	
Biodegradability	 Inoculum: activated sludge, domestic Result: Not biodegradable Biodegradation: <1 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: By analogy with a product of similar composition 	on
Iron(III)oxide:		
Biodegradability	: Remarks: Not applicable for inorganic compound.	
Physico-chemical removability	: Remarks: Not applicable	
N,N'-Ethylenedi(stearamide)		
Biodegradability	 aerobic Inoculum: activated sludge Carbon dioxide (CO2) Result: Not readily biodegradable. Biodegradation: 5.5 % Exposure time: 28 d Method: OECD Test Guideline 301B 	
C.I. Pigment White 6:		
Biodegradability	: Remarks: Not applicable for inorganic compound.	
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: not tested.	
Components:		
polychloro copper phthaloc	yanine:	
Bioaccumulation	: Remarks: Not applicable	

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Partition coefficient: n- octanol/water	:	Remarks: Not applicable
Iron(III)oxide:		
Bioaccumulation	:	Remarks: Does not accumulate in organisms.
N,N'-Ethylenedi(stearamide)):	
Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
Partition coefficient: n- octanol/water	:	Remarks: Not applicable
C.I. Pigment White 6:		
Bioaccumulation	:	Species: Oncorhynchus mykiss (rainbow trout) Bioconcentration factor (BCF): 20 - 200 Exposure time: 14 d Concentration: 0.1 - 1 mg/l Method: Other GLP: No information available. Remarks: Does not accumulate in organisms.
Partition coefficient: n- octanol/water	:	Remarks: inorganic
Mobility in soil		
Product:		
Distribution among environmental compartments	:	Remarks: not tested.
Components:		
Iron(III)oxide:		
Mobility	:	Remarks: Known distribution to environmental compartmen
Distribution among environmental compartments	:	Remarks: Not applicable
N,N'-Ethylenedi(stearamide)):	
Distribution among environmental compartments	:	log Koc: 8.6 - 8.91 Method: calculated
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



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Other adverse effects		
Product:		
Results of PBT and vPvB assessment	:	Remarks: No information is available as no chemical safety report (CSR) is required.
Additional ecological information	:	Do not allow to enter ground water, waterways or waste water
Components:		
polychloro copper phthaloo	cyar	nine:
Results of PBT and vPvB assessment	:	The substance is not identified as a PBT or as a vPvB substance.
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 water
N,N'-Ethylenedi(stearamide	e):	
Results of PBT and vPvB assessment	:	The substance is not identified as a PBT or as a vPvB substance.
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 wate

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.

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SECTION 14. TRANSPORT INFORMATION

TDG	not restricted
ΙΑΤΑ	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION

The components of this product are reported in the following inventories:			
DSL	:	All components of this product are on the Canadian DSL	

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH CA AB OEL		USA. ACGIH Threshold Limit Values (TLV) Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL		Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	short-term exposure limit
CA QC OEL / TWAEV	:	Time-weighted average exposure value
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

AICS - Australian Inventory of Chemical Substances; 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 -



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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 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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