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SECTION 1. IDENTIFICATION

Identification of the	Clariant Plastics and Coatings
company:	Canada Inc.
	2 Lone Oak Court
	Toronto, Ontario M9C 5R9,
	Telephone No.: +1 416-847-7000
	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:	ABSA 004.000% PEPPERDUST SB72653636
Waterial number.	SB72033030
Chemical family:	Colourant preparation Carrier: ABS

Primary product use: Additive for plastic material processing

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

Hazards Not Otherwise Classified:

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Colourant preparation Carrier: ABS

Components

Chemical name	CAS-No.	Concentration (% w/w)
Iron(III)oxide	1309-37-1	0.1 - 1
Aluminium oxide	1344-28-1	0.1 - 1
N,N'-Ethylenedi(stearamide)	110-30-5	1 - 5
C.I. Pigment Brown 24	68186-90-3	1 - 5
C.I. Pigment Black 28	68186-91-4	1 - 5



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1910.1200) and by the Canadia 17)., The hazardous ingredients	13463-67-710 - 30ardous by the OSHA Hazard Communication Standard (29 CFRn WHMIS 2015 Hazardous Products Regulations (SOR/2015- s of this product are encapsulated, therefore the material is not nvironmental hazards as exposure is not expected., Any e is due to batch variation.
SECTION 4. FIRST AID MEASURE	S
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



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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) Take measures to prevent the build up of electrostatic charge. Dust can form an explosive mixture in air. Carbon oxides Oxides of phosphorus 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



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	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. 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 fraction)	10 mg/m3	ACGIH
		TWA (Respirable fraction)	3 mg/m3	ACGIH
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
		TWÁ (Respirable fraction)	5 mg/m3	ACGIH
C.I. Pigment Brown 24	68186-90-3	TWA	0.5 mg/m3	CA AB OEL



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			(antimony)		
		TWAEV	0.5 mg/m3	CA QC OEL	
			(antimony)		
		TWA	0.5 mg/m3	CA BC OEL	
			(antimony)		
		TWA	0.5 mg/m3	ACGIH	
			(antimony)		
C.I. Pigment Black 28	68186-91-4	TWA	1 mg/m3	NIOSH REL	
			(Copper)		
Aluminium oxide	1344-28-1	TWA	10 mg/m3	CA AB OEL	
		TWAEV	10 mg/m3	CA QC OEL	
		(total dust)	(Aluminium)		
		TWA	1 mg/m3	CA BC OEL	
		(Respirable)	(Aluminium)		
		TWA	1 mg/m3	ACGIH	
		(Respirable	(Aluminium)		
		fraction)			
C.I. Pigment White 6	13463-67-7	TWA	10 mg/m3	CA AB OEL	
		TWA (Total	10 mg/m3	CA BC OEL	
		dust)	-		
		TWA	3 mg/m3	CA BC OEL	
		(respirable			
		dust fraction)			
		TWAEV	10 mg/m3	CA QC OEI	
		(total dust)			
Engineering measures	: Use only in a ventilation.	area provided with	n appropriate exha	lust	
		opriate exhaust v	entilation at mach	inerv and at	
		Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.			
			h as local or gener	al exhaust to	
		orne concentratio	ons below exposu	e limits.	

Personal protective equipment

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



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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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Viscosity Viscosity, dynamic		Not appliable
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	REAC	ΓΙVΙΤΥ
Reactivity	:	No dangerous reaction known under conditions of normal use
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use
Conditions to avoid	:	To avoid thermal decomposition, do not overheat. Heating can release hazardous gases.

readinity	•	No dangereds reaction known drach conditions of normal doc.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. Keep away from heat, sparks, open flames, and other 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 and sources of ignition. Strong oxidizing agents Strong bases
Incompatible materials	:	no data available See under section "Conditions to avoid"
Hazardous decomposition products	:	No hazardous decomposition products if stored and handled as prescribed Carbon oxides Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure None known.

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Acute toxicity	
Product:	
Acute dermal toxicity	: Acute toxicity estimate: 2,641 mg/kg Method: Calculation method
Components:	
Iron(III)oxide:	
Acute oral toxicity	: LD50 (Rat, male): > 10,000 mg/kg Method: Other GLP: No information available.
Acute inhalation toxicity	: LC0 (Rat, male): > 0.21 mg/l Exposure time: 14 d Method: OECD Test Guideline 412 GLP: yes
Acute dermal toxicity	: Remarks: no data available
Acute toxicity (other routes of administration)	: LD50 (Rat): 5,550 mg/kg Application Route: Intraperitoneal injection
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 Brown 24:	
Acute oral toxicity	: LD50 (Rat, male and female): > 10,000 mg/kg Method: BASF test GLP: no
Acute inhalation toxicity	: Remarks: Not applicable
Acute dermal toxicity	: Remarks: Not applicable
C.I. Pigment White 6:	
Acute oral toxicity	: LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425 GLP: no
Acute inhalation toxicity	: LC50 (Rat, male and female): 3.4 - 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist



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ostance key: 000000793164	Revision Date: 05/07/20
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	Method: OECD Test Guideline 403 GLP: no
	Assessment: The substance or mixture has no acute inhalation toxicity
	Assessment: The substance or mixture has no acute dermal toxicity Remarks: not required
Skin corrosion/irritation	
Product:	
Result: No skin irritation	
<u>Components:</u>	
Iron(III)oxide:	
Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: No skin irritation GLP: yes	ŀ
N,N'-Ethylenedi(stearamide):	
Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation	ŀ
C.I. Pigment Brown 24:	
Species: Rabbit Exposure time: 24 h Method: Draize Test Result: No skin irritation GLP: no	
C.I. Pigment White 6:	
Species: Rabbit Exposure time: 4 h Method: OECD Test Guideline 404 Result: No skin irritation GLP: no	L
Serious eye damage/eye irritatio	on
Product:	
Result: No eye irritation	

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Components:

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 Brown 24:

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

C.I. Pigment White 6:

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

Respiratory or skin sensitisation

Product:

Result: non-sensitizing

Components:

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 Brown 24:

Remarks: Not applicable

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C.I. Pigment White 6:

Test Type: Local lymph node assay (LLNA) Exposure routes: Dermal Species: Mouse Method: OECD Test Guideline 429 Result: Not a skin sensitizer. GLP: No information available.

Test Type: Buehler Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guideline 406 Result: Not a skin sensitizer. GLP: yes

Test Type: Respiratory system Exposure routes: inhalation (dust/mist/fume) Species: Mouse Method: Other Result: Does not cause respiratory sensitisation. GLP: No information available.

Germ cell mutagenicity

Components:

Iron(III)oxide:

Genotoxicity in vitro

:	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 8 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: No information available. Remarks: By analogy with a product of similar composition
	Test Type: HGPRT assay Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster Concentration: 6 - 36 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
	Remarks: By analogy with a product of similar composition
	Test Type: Chromosome aberration test in vitro Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster Concentration: 6,25 - 25 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473

Result: negative



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	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 Brown 24:	
-	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



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	Result: negative GLP: yes
	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Concentration: 0,5 - 900 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative GLP: yes
	Test Type: In vitro gene mutation study in mammalian cells Test system: mouse lymphoma cells Concentration: 3,13 - 100 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
Germ cell mutagenicity - : Assessment	It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.
C.I. Pigment White 6:	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 333 - 5000 µg/plate 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



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Carcinogenicity

Components:

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 other week Method: Other GLP: No information available. Remarks: Based on available data, the classification criteria are not met.

Species: Rat, (male and female) Application Route: Intraperitoneal injection Exposure time: 790 - 914 d Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 injections; every 8 weeks Method: Other GLP: No information available. Remarks: Based on available data, the classification criteria are not met.

Carcinogenicity - : Carcinogenicity classification not possible from current data. Assessment

N,N'-Ethylenedi(stearamide):

Carcinogenicity -	:	No information available.
Assessment		

C.I. Pigment Brown 24:

Carcinogenicity -	:	Not classifiable as a human carcinogen.
Assessment		

C.I. Pigment White 6:

Carcinogenicity -	:	Not classifiable as a human carcinogen.
Assessment		

Reproductive toxicity

<u>Components:</u>		
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.



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N,N'-Ethylenedi(stearamide): Effects on foetal

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 Brown 24:		
Effects on fertility	:	Test Type: One generation study Species: Rat, male and female Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 250 - 500 - 1000 mg/kg General Toxicity - Parent: NOAEL: >= 1,000 mg/kg body weight General Toxicity F1: NOAEL: >= 1,000 mg/kg body weight Method: OECD Test Guideline 422 GLP: yes
Effects on foetal development	:	Species: Rat Strain: Sprague-Dawley Application Route: oral (gavage) Dose: 250 - 500 - 1000 mg/kg General Toxicity Maternal: NOAEL: >= 1,000 mg/kg body weight Teratogenicity: NOAEL: >= 1,000 mg/kg body weight Method: OECD Test Guideline 422 GLP: yes
Reproductive toxicity - Assessment	:	No reproductive toxicity to be expected. No teratogenic effects to be expected.
C.I. Pigment White 6:		
Effects on fertility	:	Remarks: no data available
Effects on foetal development	:	Test Type: Pre-natal Species: Rat, female Strain: wistar Application Route: oral (gavage) Dose: 100, 300, 1000 mg/kg bw Duration of Single Treatment: 14 d Frequency of Treatment: 1 daily General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight Developmental Toxicity: NOAEL: 1,000 mg/kg body weight Embryo-foetal toxicity: NOEL: 1,000 mg/kg body weight



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	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:

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 Brown 24:

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

C.I. Pigment White 6:

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

STOT - repeated exposure

Components:

Iron(III)oxide:

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

N,N'-Ethylenedi(stearamide):

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

C.I. Pigment Brown 24:

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

C.I. Pigment White 6:

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



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Repeated dose toxicity

Components:

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

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.

Application Route: Inhalation Remarks: not tested.

Application Route: Skin contact Remarks: not tested.



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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:

Iron(III)oxide:

No aspiration toxicity classification

N,N'-Ethylenedi(stearamide):

no data available

C.I. Pigment Brown 24:

No aspiration toxicity classification

C.I. Pigment White 6:

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.



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Product:		
Toxicity to fish	:	Remarks: no data available
Components:		
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	:	Exposure time: Remarks: no data available
Toxicity to fish (Chronic toxicity)	:	Remarks: not reasonable
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: not reasonable
Toxicity to microorganisms	:	EC50 (activated sludge of a predominantly domestic sewage): > 10,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Method: ISO 8192 GLP: no
Toxicity to soil dwelling organisms	:	Remarks: The study is not necessary from a scientific perspective.
Plant toxicity	:	Remarks: The study is not necessary from a scientific perspective.



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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 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 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



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		Method: DIN 38412 T.15 GLP: no Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic toxicity)	:	Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: not required
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 10,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 0.5 h Test Type: aquatic Analytical monitoring: no Method: DIN 38412 T.27 GLP: no Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to soil dwelling organisms	:	Remarks: Not applicable
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



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	Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: EPA GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 203 GLP: No information available. Remarks: The details of the toxic effect relate to the nominal concentration.
	LC50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: no data available Method: OECD Test Guideline 203 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other : aquatic invertebrates	LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: no data available Method: OECD Test Guideline 202 GLP: no data available Remarks: The details of the toxic effect relate to the nominal concentration.
	LC50 (Acartia tonsa): > 10,000 mg/l Exposure time: 48 h Analytical monitoring: no data available Method: ISO 14669 and PARCOM method GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
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.



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	EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l End point: Growth rate Exposure time: 72 h Analytical monitoring: no data available Method: ISO 10253 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic : toxicity)	LC50 (Oncorhynchus mykiss (rainbow trout)): 7.31 mg/l Exposure time: 28 d Test Type: static test Analytical monitoring: yes Method: Other GLP: No information available. Remarks: By analogy with a product of similar composition
Toxicity to microorganisms :	EC50 (activated sludge of a predominantly domestic sewage): > 1,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Method: OECD Test Guideline 209 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
	NOEC (activated sludge of a predominantly domestic sewage): >= 1,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Method: OECD Test Guideline 209 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to soil dwelling : organisms	Test Type: artificial soil NOEC (Folsomia candida): 0,1 ->= 10 % Exposure time: 28 d End point: mortality Method: ISO 11267 GLP: no Remarks: By analogy with a product of similar composition 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



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	Method: Other GLP: no
	Remarks: By analogy with a product of similar composition
	No effect on the growth was observed.
Sediment toxicity :	NOEC (Hyalella azteca (Scud)): >= 100000 % Analytical monitoring: no
	Sediment: artificial soil Exposure duration: 28 d
	Nominal / Measured: nominal
	Basis for effect: mortality
	Method: Other
	GLP: no Remarks: By analogy with a product of similar composition
	NOEC: >= 14989 mg/kg dry weight (d.w.) Analytical monitoring: no data available
	Sediment: Natural sediment
	Exposure duration: 10 d
	Nominal / Measured: nominal
	Basis for effect: mortality Method: Other
	GLP: yes
Develotence, and developility	
Persistence and degradability	
Components:	
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 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.
C.I. Pigment White 6:	
Biodegradability :	Remarks: Not applicable for inorganic compound.
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Bioaccumulative potential Product: Bioaccumulation	:	Remarks: not tested.
Components: 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 Brown 24: Bioaccumulation	:	Remarks: Not relevant for inorganic substances
C.I. Pigment White 6: Bioaccumulation	:	Species: Oncorhynchus mykiss (rainbow trout) Bioconcentration factor (BCF): 20 - 200 Exposure time: 14 d Concentration: 0.1 - 1 mg/l Method: Other GLP: No information available. Remarks: Does not accumulate in organisms.
Partition coefficient: n- octanol/water	:	Remarks: inorganic
Mobility in soil <u>Product:</u> Distribution among environmental compartments	:	Remarks: not tested.
Components:		
Iron(III)oxide: Mobility	:	Remarks: Known distribution to environmental compartments
Distribution among environmental compartments	:	Remarks: Not applicable
N,N'-Ethylenedi(stearamide): Distribution among environmental compartments	:	log Koc: 8.6 - 8.91 Method: calculated

Additional ecological

information



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C.I. Pigment Brown 24: Distribution among environmental compartments	: Remarks: Not applicable
C.I. Pigment White 6:	
Mobility	: Remarks: Adsorption to solid soil phase is possible.
Distribution among environmental compartments	: Adsorption/Soil Medium: water - soil log Koc: 4.61 Method: Other
Other adverse effects	
Product:	
Results of PBT and vPvB assessment	: Remarks: No information is available as no chemical safety report (CSR) is required.
Additional ecological information	: Do not allow to enter ground water, waterways or waste water.
Components:	
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):	
Results of PBT and vPvB assessment	: The substance is not identified as a PBT or as a vPvB substance.
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.

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



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C.I. Pigment White 6:

Environmental fate and pathways	:	not available
Results of PBT and vPvB assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
Additional ecological information	:	Do not allow to enter ground water, waterways or waste water.

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

TDG	not restricted
ΙΑΤΑ	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION

NPRI Components	:	Chromium (III) compound Antimony compounds Copper 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.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table
		2: OEL)



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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
	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; 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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