

## ABS ABS 004.000% BROWN 5221B-15

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## **SECTION 1. IDENTIFICATION**

Identification of the	Avient Colorants Canada Inc.				
company:	2 Lone Oak Court				
	Toronto, Ontario, M9C 5R9				
	Telephone No.: +1 514-832-2559				
	Information of the substance/preparation: Product Stewardship e-mail: SDS.NORAMMB@Clariant.com				
	Emergency tel. number: +1 CANUTEC (613) 996-6666				
<b></b>					
Trade name: Material number:	ABS ABS 004.000% BROWN 5221B-15 SB84765615				

## 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)
C.I. Pigment Black 7	1333-86-4	0.1 - 1
N,N'-Ethylenedi(stearamide)	110-30-5	1 - 5
C.I. Pigment White 6	13463-67-7	1 - 5
Iron(III)oxide	1309-37-1	5 - 10

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



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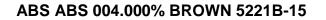
GHS classified for health and environmental hazards as exposure is not expected., Any concentration shown as a range is due to batch variation.

## 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





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	Carbon monoxide Carbon dioxide (CO2) Take measures to prevent the build up of electrostatic charge. Dust can form an explosive mixture in air. Metal oxides Sulphur oxides Zinc oxide
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	:	<ul> <li>Handle in accordance with good industrial hygiene and safety practice.</li> <li>Use only with adequate ventilation/personal protection.</li> <li>For personal protection see section 8.</li> <li>Avoid contact with skin, eyes and clothing.</li> <li>Use only with adequate ventilation.</li> <li>When handling hot melts use suitable protective clothing.</li> </ul>



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	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 particulate matter)	10 mg/m3	ACGIH
		TWA (Respirable particulate matter)	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
		TWA (Respirable particulate matter)	5 mg/m3	ACGIH
C.I. Pigment Black 7	1333-86-4	TWA	3.5 mg/m3	CA AB OEL
		TWA (Inhalable)	3 mg/m3	CA BC OEL
		TWAEV	3.5 mg/m3	CA QC OEL
		TWA (Inhalable	3 mg/m3	ACGIH



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		particulate matter)		
C.I. Pigment White 6	13463-67-7	TWA	10 mg/m3	CA AB OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWA (respirable dust fraction)	3 mg/m3	CA BC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
Engineering measures	ventilation. Provide appr places where Use enginee	ropriate exhaust v e dust can be ger ring controls suc	n appropriate exh ventilation at macl nerated. h as local or gene ons below exposu	hinery and at eral exhaust to
Personal protective equipr				
Respiratory protection	manufacture generated. Use respirat	r's recommendat	respirators follow ions where dust o uipment when usin e section 8).	or fume may be
Hand protection Remarks		oves When hand	bus butyl rubber g ling hot material, t	
Eye protection	: Safety glass	es with side-shiel	ds	
Skin and body protection	to prevent sl	kin contact.	uding long sleeves suitable protectiv	-
Hygiene measures	during work, the handling	in particular: do	precautions must not drink, eat or si nd clean hands an	moke during

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Granules
Colour	:	brown
Odour	:	characteristic
Odour Threshold	:	Not applicable

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

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**XAVIENT** 

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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	:	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.
Incompatible materials	:	no data available Strong acids and strong bases Strong oxidizing agents Strong acids and oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products if stored and handled as prescribed

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes	of exposure
None known.	
Acute toxicity	
Product:	
Acute inhalation toxicity	: Acute toxicity estimate: > 200 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: 3,944 mg/kg Method: Calculation method
Components:	
C.I. Pigment Black 7:	
Acute oral toxicity	: LD50 (Rat, male and female): > 10,000 mg/kg Method: OECD Test Guideline 401



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	GLP: no Remarks: No significant adverse effects were reported
Acute inhalation toxicity	<ul> <li>LC0 (Rat): &gt; 0.0046 mg/l</li> <li>Exposure time: 4 h</li> <li>Test atmosphere: dust/mist</li> <li>Method: OECD Test Guideline 403</li> </ul>
	GLP: No information available. Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: Remarks: not required
N,N'-Ethylenedi(stearamic	de):
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 derma toxicity Remarks: not required
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

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Acute toxicity (other routes of : LD50 (Rat): 5,550 mg/kg administration) Application Route: Intraperitoneal injection

#### **Skin corrosion/irritation**

#### Product:

Result: No skin irritation

#### **Components:**

### C.I. Pigment Black 7:

Species: Rabbit Exposure time: 4 - 24 h Method: OECD Test Guideline 404 Result: No skin irritation GLP: no

#### 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

#### Iron(III)oxide:

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

#### Serious eye damage/eye irritation

## Product:

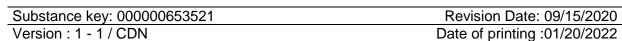
Result: No eye irritation

### Components:

## C.I. Pigment Black 7:

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

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### N,N'-Ethylenedi(stearamide):

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

#### C.I. Pigment White 6:

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

### Iron(III)oxide:

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

#### Respiratory or skin sensitisation

Product:

Result: non-sensitizing

#### **Components:**

### C.I. Pigment Black 7:

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

### 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





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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.

## 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.

### Germ cell mutagenicity

## Components:

# C.I. Pigment Black 7:

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 GLP: yes
		Test Type: In vitro gene mutation study in mammalian cells Test system: Rodent cell line Metabolic activation: without Method: OECD Test Guideline 476 Result: positive GLP: No information available.
		Test Type: Micronucleus test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative GLP: yes
Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
N,N'-Ethylenedi(stearamide):	:	
Genotoxicity in vitro	:	Test Type: Ames test Test system: Salmonella typhimurium

Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

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	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	<ul> <li>Test Type: Ames test</li> <li>Test system: Salmonella typhimurium</li> <li>Concentration: 333 - 5000 µg/plate</li> <li>Metabolic activation: with and without metabolic activation</li> <li>Method: OECD Test Guideline 471</li> <li>Result: negative</li> <li>GLP: yes</li> </ul>
	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	<ul> <li>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</li> </ul>
Germ cell mutagenicity - Assessment	In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects
Iron(III)oxide:	
	<ul> <li>Test Type: Ames test</li> <li>Test system: Salmonella typhimurium</li> <li>Concentration: 8 - 5000 µg/plate</li> <li>Metabolic activation: with and without metabolic activation</li> <li>Method: OECD Test Guideline 471</li> </ul>

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

#### Carcinogenicity

## Components:

### C.I. Pigment Black 7:

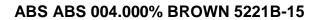
Remarks: Carbon Black should not be classified for carcinogenicity according to the criteria of the Globally Harmonized System of Classification and Labelling of Chemicals. Human health studies show that exposure to carbon black does not increase the risk of carcinogenicity. Studies in laboratory animals show that lung tumors are induced in rats as a result of repeated exposure to inert, poorly soluble particles like carbon black and other poorly soluble particles. Rat tumors are a result of a secondary non-genotoxic mechanism associated with the phenomenon of lung overload. This is a species-specific mechanism that has questionable relevance for classification in humans. Thus a carcinogenicity classification for Carbon Black is not warranted.

Carcinogenicity -Assessment : Not classifiable as a human carcinogen.



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N,N'-Ethylenedi(stearam	ide).
Carcinogenicity -	: No information available.
Assessment	
1996991116111	
C.I. Pigment White 6:	
-	
Carcinogenicity -	: Not classifiable as a human carcinogen.
Assessment	
Iron(III)oxide:	
	amala)
Species: Rat, (male and fe	
Application Route: oral (ga Exposure time: 798 d	avayej
•	
Dose: 10 - 40 mg/kg Group: yes	
Frequency of Treatment: e	avery other week
Method: Other	SVOLY OUTER WEEK
GLP: No information availa	able
	ble data, the classification criteria are not met.
Species: Rat, (male and fe	emale)
Application Route: Intrape	ritoneal injection
Exposure time: 790 - 914 (	d
Exposure time: 790 - 914 ( Dose: 200 mg/kg	d
Exposure time: 790 - 914 ( Dose: 200 mg/kg Group: yes	d
Dose: 200 mg/kg Group: yes	d 3 injections; every 8 weeks
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other	3 injections; every 8 weeks
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa	3 injections; every 8 weeks able.
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa	3 injections; every 8 weeks
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa	3 injections; every 8 weeks able. able data, the classification criteria are not met.
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa	3 injections; every 8 weeks able.
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity -	3 injections; every 8 weeks able. able data, the classification criteria are not met.
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity -	3 injections; every 8 weeks able. able data, the classification criteria are not met.
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment	3 injections; every 8 weeks able. able data, the classification criteria are not met.
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment <b>Reproductive toxicity</b> <u>Components:</u>	3 injections; every 8 weeks able. able data, the classification criteria are not met.
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7:	3 injections; every 8 weeks able. Ible data, the classification criteria are not met. : Carcinogenicity classification not possible from current data
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	3 injections; every 8 weeks able. able data, the classification criteria are not met. : Carcinogenicity classification not possible from current data : Test Type: Pre-natal
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7:	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Test Type: Pre-natal Species: Rabbit, male and female</li> </ul>
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Carcinogenicity classification not possible from current data</li> </ul>
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Carcinogenicity classification not possible from current data</li> </ul>
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Carcinogenicity classification not possible from current data</li> <li>Species: Rabbit, male and female</li> <li>Strain: New Zealand white</li> <li>Application Route: Inhalation</li> <li>Dose: 10% diesel exhaust emission</li> </ul>
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Species: Rabbit, male and female Strain: New Zealand white Application Route: Inhalation Dose: 10% diesel exhaust emission Duration of Single Treatment: 12 d</li> </ul>
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Species: Rabbit, male and female Strain: New Zealand white Application Route: Inhalation Dose: 10% diesel exhaust emission Duration of Single Treatment: 12 d Method: OECD Test Guideline 414</li> </ul>
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Carcinogenicity classification not possible from current data</li> <li>Species: Rabbit, male and female</li> <li>Strain: New Zealand white</li> <li>Application Route: Inhalation</li> <li>Dose: 10% diesel exhaust emission</li> <li>Duration of Single Treatment: 12 d</li> <li>Method: OECD Test Guideline 414</li> <li>Result: No effects on fertility and early embryonic</li> </ul>
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Carcinogenicity classification not possible from current data</li> <li>Species: Rabbit, male and female Strain: New Zealand white Application Route: Inhalation Dose: 10% diesel exhaust emission Duration of Single Treatment: 12 d Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic development were detected.</li> </ul>
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Carcinogenicity classification not possible from current data</li> <li>Species: Rabbit, male and female Strain: New Zealand white Application Route: Inhalation Dose: 10% diesel exhaust emission Duration of Single Treatment: 12 d Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic development were detected. GLP: no</li> </ul>
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Carcinogenicity classification not possible from current data</li> <li>Species: Rabbit, male and female Strain: New Zealand white Application Route: Inhalation Dose: 10% diesel exhaust emission Duration of Single Treatment: 12 d Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic development were detected.</li> </ul>
Dose: 200 mg/kg Group: yes Frequency of Treatment: 3 Method: Other GLP: No information availa Remarks: Based on availa Carcinogenicity - Assessment Reproductive toxicity <u>Components:</u> C.I. Pigment Black 7: Effects on foetal	<ul> <li>B injections; every 8 weeks</li> <li>able.</li> <li>able data, the classification criteria are not met.</li> <li>Carcinogenicity classification not possible from current data</li> <li>Carcinogenicity classification not possible from current data</li> <li>Species: Rabbit, male and female Strain: New Zealand white Application Route: Inhalation Dose: 10% diesel exhaust emission Duration of Single Treatment: 12 d Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic development were detected. GLP: no</li> </ul>





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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
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.
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.

## STOT - single exposure

### Components:

## C.I. Pigment Black 7:

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



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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.

#### Iron(III)oxide:

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

#### STOT - repeated exposure

#### **Components:**

#### C.I. Pigment Black 7:

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 White 6:

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.

#### **Repeated dose toxicity**

#### **Components:**

### C.I. Pigment Black 7:

Species: Rat, female NOAEL: 52 mg/kg bw/day Application Route: oral (feed) Exposure time: 1 a - 2 a Number of exposures: daily Dose: 2,05 g/kg of chow diet Group: yes Method: Other GLP: No information available. Remarks: No adverse effect has been observed in chronic toxicity tests.

Species: Rat, male NOAEL: 0.0011 mg/l LOAEL: 0.0071 mg/l Application Route: Inhalation Test atmosphere: dust/mist



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Exposure time: 13 w Number of exposures: 6 h per day; 5 d per week Dose: 1,1 - 7,1 - 52,8 mg/m3 Group: yes Method: Other GLP: No information available.

Species: Mouse, male and female Application Route: Skin contact Exposure time: 12-18 m Number of exposures: 3 times per week Dose: 20% carbon black suspensions Group: yes Method: Other GLP: no Remarks: No adverse effect has been observed in chronic toxicity tests.

### 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 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

#### 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)



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## 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.

:

### Aspiration toxicity

#### **Components:**

**C.I. Pigment Black 7:** No aspiration toxicity classification

## N,N'-Ethylenedi(stearamide):

no data available

## C.I. Pigment White 6:

No aspiration toxicity classification

## Iron(III)oxide:

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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SION . I - I / CDIN		Date of printing .01/20/.
TION 12. ECOLOGICAL INFO	DRM	ΙΑΤΙΟΝ
Factoriaity		
Ecotoxicity		
Product:		
Toxicity to fish	:	Remarks: no data available
Components:		
C.I. Pigment Black 7:		
Toxicity to fish		LC0 (Danio rerio (zebra fish)): 1,000 mg/l
	•	End point: mortality
		Exposure time: 96 h
		Test Type: semi-static test
		Analytical monitoring: no Method: OECD Test Guideline 203
		GLP: yes
		Remarks: The details of the toxic effect relate to the nomin
		concentration.
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): > 5,600 mg/l
aquatic invertebrates		End point: Immobilization
		Exposure time: 24 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 nomin
		concentration.
Toxicity to algae/aquatic	:	EC50 (Desmodesmus subspicatus (green algae)): > 10,00
plants		mg/l
		End point: Growth rate Exposure time: 72 h
		Test Type: static test
		Analytical monitoring: no
		Method: OECD Test Guideline 201
		GLP: yes Remarks: The details of the toxic offect relate to the nami
		Remarks: The details of the toxic effect relate to the nomir concentration.
Toxicity to fish (Chronic	:	Remarks: not required
toxicity)		
Toxicity to daphnia and other	:	Remarks: not required
aquatic invertebrates		
(Chronic toxicity)		
Toxicity to microorganisms	:	EC0 (activated sludge): > 400 mg/l
		End point: Bacteria toxicity (growth inhibition)
		Exposure time: 3 h
		Test Type: static test Method: DIN 38412

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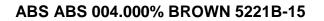


ostance key: 000000653521		Revision Date: 09/15/20
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		GLP: no
Toxicity to soil dwelling organisms	:	Test Type: Other Method: Other GLP: No information available. Remarks: This product does not have any known adverse effect on the soil organisms tested.
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 White 6:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg. Exposure time: 96 h Test Type: static test

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	Analytical monitoring: no Method: EPA GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 203 GLP: No information available. Remarks: The details of the toxic effect relate to the nominal concentration.
	LC50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: no data available Method: OECD Test Guideline 203 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other : aquatic invertebrates	LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: no data available Method: OECD Test Guideline 202 GLP: no data available Remarks: The details of the toxic effect relate to the nominal concentration.
	LC50 (Acartia tonsa): > 10,000 mg/l Exposure time: 48 h Analytical monitoring: no data available Method: ISO 14669 and PARCOM method GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (microalgae)): 61 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: EPA GLP: No information available. Remarks: The details of the toxic effect relate to the nominal concentration.
	EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l End point: Growth rate





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	Exposure time: 72 h Analytical monitoring: no data available Method: ISO 10253 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic : toxicity)	LC50 (Oncorhynchus mykiss (rainbow trout)): 7.31 mg/l Exposure time: 28 d Test Type: static test Analytical monitoring: yes Method: Other GLP: No information available. Remarks: By analogy with a product of similar composition
Toxicity to microorganisms :	EC50 (activated sludge of a predominantly domestic sewage): > 1,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Method: OECD Test Guideline 209 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
	NOEC (activated sludge of a predominantly domestic sewage): >= 1,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Method: OECD Test Guideline 209 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to soil dwelling : organisms	Test Type: artificial soil NOEC (Folsomia candida): 0,1 ->= 10 % Exposure time: 28 d End point: mortality Method: ISO 11267 GLP: no Remarks: By analogy with a product of similar composition This product does not have any known adverse effect on the soil organisms tested.
Plant toxicity :	NOEC: >= 10 % Exposure time: 20 h End point: Growth Species: Lactuca sativa (lettuce) Analytical monitoring: yes Method: Other GLP: no Remarks: By analogy with a product of similar composition No effect on the growth was observed.

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Sediment toxicity	:	NOEC (Hyalella azteca (Scud)): >= 100000 % Analytical monitoring: no Sediment: artificial soil Exposure duration: 28 d
		Nominal / Measured: nominal Basis for effect: mortality Method: Other GLP: no Remarks: By analogy with a product of similar composition
		NOEC: >= 14989 mg/kg dry weight (d.w.) Analytical monitoring: no data available Sediment: Natural sediment Exposure duration: 10 d Nominal / Measured: nominal
		Basis for effect: mortality Method: Other GLP: yes
Ecotoxicology Assessment		
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Iron(III)oxide:		
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): approx. 100,000 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: no data available Method: Umweltbundesamt, 1984 GLP: no Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic plants	:	Remarks: no data available
Toxicity to fish (Chronic toxicity)	:	Remarks: not reasonable
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: not reasonable
Toxicity to microorganisms	:	EC50 (activated sludge of a predominantly domestic sewage):



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	<ul> <li>&gt; 10,000 mg/l</li> <li>End point: Bacteria toxicity (r</li> <li>Exposure time: 3 h</li> <li>Test Type: aquatic</li> <li>Method: ISO 8192</li> <li>GLP: no</li> </ul>	espiration inhibition)
Toxicity to soil dwelling organisms	Remarks: The study is not ne perspective.	ecessary from a scientific
Plant toxicity	Remarks: The study is not ne perspective.	ecessary from a scientific
Sediment toxicity	Remarks: The study is not ne perspective.	ecessary from a scientific
Toxicity to terrestrial organisms	Remarks: The study is not ne perspective.	ecessary from a scientific
Persistence and degradabili		
Components:		
C.I. Pigment Black 7:		
Biodegradability	Remarks: Not applicable	
<b>N,N'-Ethylenedi(stearamide)</b> Biodegradability	aerobic Inoculum: activated sludge Carbon dioxide (CO2) Result: Not readily biodegrad Biodegradation: 5.5 % Exposure time: 28 d Method: OECD Test Guidelin	
C.I. Pigment White 6:		
Biodegradability	Remarks: Not applicable for i	norganic compound.
Iron(III)oxide: Biodegradability	Remarks: Not applicable for i	norganic compound
Diodegradability	Tremarks. Not applicable for i	norganie compound.
Physico-chemical removability	Remarks: Not applicable	
Bioaccumulative potential		
<b>—</b> • •		
Product:	<b>B I</b> <i>I I I</i>	
Product: Bioaccumulation	Remarks: not tested.	
	Remarks: not tested.	

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**AVIENT** 

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Bioaccumulation :	Remarks: Not applicable
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
Iron(III)oxide:	
Bioaccumulation :	Remarks: Does not accumulate in organisms.
Mobility in soil	
Product:	
Distribution among : environmental compartments	Remarks: not tested.
Components:	
C.I. Pigment Black 7:	
Distribution among : environmental compartments	Adsorption/Soil Medium: water - soil 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 Method: Other

Iron(III)oxide:

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Mobility	:	Remarks: Known distribution to environmental compartmen
Distribution among environmental compartments	:	Remarks: Not applicable
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 wa
Components:		
C.I. Pigment Black 7:		
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 wa
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 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 wa
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 wa

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## SECTION 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

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

#### **SECTION 14. TRANSPORT INFORMATION**

TDG	not restricted
ΙΑΤΑ	not restricted
IMDG	not restricted

## **SECTION 15. REGULATORY INFORMATION**

NPRI Components	:	Zinc compounds
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)
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 BC OEL / STEL	:	short-term exposure limit
CA QC OEL / TWAEV	:	Time-weighted average exposure value

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



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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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