

## ABS GP35 002.000% R2746 CLY

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Substance key: 000000717636

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## SECTION 1. IDENTIFICATION

**Identification of the company:**

Clariant Plastics & Coatings Canada Inc.  
2 Lone Oak Court  
Toronto, Ontario, M9C 5R9  
Telephone No.: +1 514-832-2559

**Information of the substance/preparation:**

BU Masterbatches  
Product Stewardship, +1-704-331-7710  
e-mail: SDS.NORAM@clariant.com

**Emergency tel. number:** +1 CANUTEC (613) 996-6666**Trade name:**

ABS GP35 002.000% R2746 CLY

**Material number:**

SB73754457

**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)
C.I. Pigment Black 7	1333-86-4	0.1 - 1
Aluminium oxide	1344-28-1	0.1 - 1
N,N'-Ethylenedi(stearamide)	110-30-5	1 - 5
Iron(III)oxide	1309-37-1	1 - 5
C.I. Pigment Brown 24	68186-90-3	10 - 30
C.I. Pigment White 6	13463-67-7	10 - 30

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

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**SECTION 4. FIRST AID MEASURES**

- |   |   |   |
|---|---|---|
| If inhaled  | : | Move the victim to fresh air.<br>Give oxygen or artificial respiration if needed.<br>Get immediate medical advice/ attention.<br>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.<br>In case of burns apply cold water until pain subsides then seek medical advice.<br>Burns must be treated by a physician.<br>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.<br>Get medical attention immediately if irritation develops and persists.  |
| If swallowed  | : | Rinse mouth.<br>Do NOT induce vomiting.<br>Never give anything by mouth to an unconscious person.<br>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).<br>No additional symptoms are known.  |
| Notes to physician  | : | Treat symptomatically.  |

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**SECTION 5. FIREFIGHTING MEASURES**

- |                                |   |   |
|--------------------------------|---|---|
| Suitable extinguishing media   | : | Water spray<br>Foam<br>Carbon dioxide (CO2)<br>Dry chemical |
| Unsuitable extinguishing media | : | High volume water jet                                       |
| Specific hazards during        | : | In case of fire hazardous decomposition products may be     |

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firefighting	<p>produced such as:</p> <p>Styrene</p> <p>Hydrogen cyanide (hydrocyanic acid)</p> <p>Acrylonitrile</p> <p>Carbon monoxide</p> <p>Carbon dioxide (CO<sub>2</sub>)</p> <p>Take measures to prevent the build up of electrostatic charge.</p> <p>Dust can form an explosive mixture in air.</p> <p>Metal oxides</p> <p>Sulphur oxides</p>
Further information	<p>: Combustible material</p> <p>In the event of fire and/or explosion do not breathe fumes.</p> <p>During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion</p> <p>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.</p> <p>Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.</p>
Special protective equipment for firefighters	<p>: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.</p>

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	<p>: Refer to protective measures listed in sections 7 and 8.</p> <p>Avoid contact with skin, eyes and clothing.</p> <p>Wash thoroughly after handling.</p>
Environmental precautions	<p>: Do not allow contact with soil, surface or ground water.</p> <p>Prevent product from entering drains.</p>
Methods and materials for containment and cleaning up	<p>: Avoid dust formation.</p> <p>Take measures to prevent the build up of electrostatic charge.</p> <p>Sweep up and shovel into suitable containers for disposal.</p> <p>Take up uncontaminated material and pass on for further processing.</p> <p>After cleaning, flush away traces with water.</p>

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion	<p>: Take measures to prevent the build up of electrostatic charge.</p>
Advice on safe handling	<p>: Handle in accordance with good industrial hygiene and safety practice.</p> <p>Use only with adequate ventilation/personal protection.</p>

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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/m <sup>3</sup>	CA AB OEL
		TWA	10 mg/m <sup>3</sup>	CA BC OEL
		TWA (Inhalable fraction)	10 mg/m <sup>3</sup>	ACGIH
		TWA (Respirable fraction)	3 mg/m <sup>3</sup>	ACGIH
Iron(III)oxide	1309-37-1	TWA (Respirable)	5 mg/m <sup>3</sup>	CA AB OEL
		TWA (Fumes)	5 mg/m <sup>3</sup> (Iron)	CA BC OEL
		TWA (Dust)	5 mg/m <sup>3</sup> (Iron)	CA BC OEL
		STEL (Fumes)	10 mg/m <sup>3</sup> (Iron)	CA BC OEL
		TWAEV (fume and dust)	5 mg/m <sup>3</sup> (Iron)	CA QC OEL
		TWA (Respirable fraction)	5 mg/m <sup>3</sup>	ACGIH
C.I. Pigment Brown 24	68186-90-3	TWA	0.5 mg/m <sup>3</sup> (antimony)	CA AB OEL
		TWAEV	0.5 mg/m <sup>3</sup>	CA QC OEL

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			(antimony)	
		TWA	0.5 mg/m3 (antimony)	CA BC OEL
		TWA	0.5 mg/m3 (antimony)	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 fraction)	3 mg/m3	ACGIH
Aluminium oxide	1344-28-1	TWA	10 mg/m3	CA AB OEL
		TWAEV (total dust)	10 mg/m3 (Aluminium)	CA QC OEL
		TWA (Respirable)	1 mg/m3 (Aluminium)	CA BC OEL
		TWA (Respirable fraction)	1 mg/m3 (Aluminium)	ACGIH
C.I. Pigment White 6	13463-67-7	TWA	10 mg/m3	CA AB OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWA (respirable dust fraction)	3 mg/m3	CA BC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL

**Engineering measures**

- : Use only in area provided with appropriate exhaust ventilation.  
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.  
Use engineering controls such as local or general exhaust to maintain airborne concentrations below exposure limits.

**Personal protective 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.

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When handling hot melts use suitable protective clothing.

Hygiene measures : The usual Industrial Hygiene precautions must be taken during work, in particular: do not drink, eat or smoke during the handling of the product and clean hands and face during work intervals and after work.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Granules
Colour	: grey
Odour	: characteristic
Odour Threshold	: Not applicable
pH	: 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

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decomposition of the product is expected if it is processed according to good manufacturing practices.  
See section 10.4. "Conditions to avoid"

Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: no data available no data available
Oxidizing properties	: not available
Surface tension	: Not relevant
Particle size	: Product specific

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable
Possibility of hazardous 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 oxidizing agents Strong acids and oxidizing agents Strong acids and strong bases
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.

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**Acute toxicity****Product:**

Acute dermal toxicity : Acute toxicity estimate: 2,922 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  
GLP: no  
Remarks: No significant adverse effects were reported

Acute inhalation toxicity : LC0 (Rat): > 0.0046 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: No information available.  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Remarks: not required

**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

**Iron(III)oxide:**

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

Acute inhalation toxicity : LC0 (Rat, male): > 0.21 mg/l  
Exposure time: 14 d  
Method: OECD Test Guideline 412  
GLP: yes

Acute dermal toxicity : Remarks: no data available

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

**C.I. Pigment Brown 24:**



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Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg  
Method: BASF test  
GLP: no

Acute inhalation toxicity : Remarks: Not applicable

Acute dermal toxicity : Remarks: Not applicable

**C.I. Pigment White 6:**

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg  
Method: OECD Test Guideline 425  
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 3.4 - 5.1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: no  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: not required

**Skin corrosion/irritation****Product:**

Result: No skin irritation

**Components:****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

**Iron(III)oxide:**

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

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**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

**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

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

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

**Iron(III)oxide:**

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

**C.I. Pigment Brown 24:**

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

**C.I. Pigment White 6:**

Species: rabbit eye

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

**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.

**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.

**C.I. Pigment Brown 24:**

Remarks: Not applicable

**C.I. Pigment White 6:**

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

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

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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:****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  
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

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Result: negative

Germ cell mutagenicity -  
Assessment : In vitro tests did not show mutagenic effects

**Iron(III)oxide:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 8 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.  
Remarks: By analogy with a product of similar composition

Test Type: HGPRT assay  
Test system: V79 cells (embryonic lung fibroblasts) of the Chinese hamster  
Concentration: 6 - 36 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: By analogy with a product of similar composition

Test Type: Chromosome aberration test in vitro  
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.

**C.I. Pigment Brown 24:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 100 - 5000 µg/plate

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Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Ames test  
Test system: Escherichia coli  
Concentration: 2,5 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Concentration: 0,5 - 900 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative  
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells  
Test system: mouse lymphoma cells  
Concentration: 3,13 - 100 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

**C.I. Pigment White 6:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 333 - 5000 µg/plate  
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

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Application Route: oral (gavage)  
Exposure time: single treatment  
Dose: 500 - 1000 - 2000 mg/kg  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

**Carcinogenicity****Components:****C.I. Pigment Black 7:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

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

Carcinogenicity - Assessment : No information available.

**Iron(III)oxide:**

Species: Rat, (male and female)  
Application Route: oral (gavage)  
Exposure time: 798 d  
Dose: 10 - 40 mg/kg  
Group: yes  
Frequency of Treatment: every 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 - Assessment : Carcinogenicity classification not possible from current data.

**C.I. Pigment Brown 24:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

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**C.I. Pigment White 6:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Reproductive toxicity****Components:****C.I. Pigment Black 7:**

Effects on foetal development : Test Type: Pre-natal  
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  
Remarks: By analogy with a product of similar composition

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**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:  $\geq$  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.

**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.

**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



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General Toxicity - Parent: NOAEL:  $\geq$  1,000 mg/kg body weight  
General Toxicity F1: NOAEL:  $\geq$  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:  $\geq$  1,000 mg/kg body weight  
Teratogenicity: NOAEL:  $\geq$  1,000 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes

Reproductive toxicity -  
Assessment

: No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

**C.I. Pigment White 6:**

Effects on fertility

: Remarks: no data available

Effects on foetal  
development

: Test Type: Pre-natal  
Species: Rat, female  
Strain: wistar  
Application Route: oral (gavage)  
Dose: 100, 300, 1000 mg/kg bw  
Duration of Single Treatment: 14 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight  
Developmental Toxicity: NOAEL: 1,000 mg/kg body weight  
Embryo-foetal toxicity: NOEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: No significant adverse effects were reported

Reproductive toxicity -  
Assessment

: No evidence of adverse effects on sexual function and fertility,  
or on development, based on animal experiments.  
Did not show teratogenic effects in animal experiments.

**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 exposure.

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**Iron(III)oxide:**

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

**C.I. Pigment Brown 24:**

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

**C.I. Pigment White 6:**

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

**STOT - repeated exposure****Components:****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.

**Iron(III)oxide:**

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

**C.I. Pigment Brown 24:**

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

**C.I. Pigment White 6:**

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

**Repeated dose toxicity****Components:****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

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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

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: &gt;= 1000 mg/kg bw/day

Application Route: oral (gavage)

Method: OECD Test Guideline 408

**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.

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Application Route: Skin contact  
Method: Repeated Dose Toxicity (subacute study)  
Remarks: The study is not necessary from a scientific perspective.

**C.I. Pigment Brown 24:**

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

Application Route: Inhalation  
Remarks: not tested.

Application Route: Skin contact  
Remarks: not tested.

**C.I. Pigment White 6:**

Species: Rat, male  
NOEL: > 24000 mg/kg bw/day  
Application Route: oral (gavage)  
Exposure time: 29 d  
Number of exposures: daily  
Dose: 24000 mg/kg  
Group: yes  
Method: OECD Test Guideline 407  
GLP: No information available.

Species: Rat, male and female  
NOAEL: 0.01 mg/l  
Application Route: Inhalation  
Exposure time: 2 a  
Number of exposures: 6 hours/day, 5 days/week  
Dose: 0,0106 - 0,0507 - 0,250 mg/l  
Group: yes  
Method: Repeated Dose Toxicity (chronic Toxicity)  
GLP: no

**Aspiration toxicity****Components:****C.I. Pigment Black 7:**

No aspiration toxicity classification

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

no data available

**Iron(III)oxide:**

No aspiration toxicity classification

**C.I. Pigment Brown 24:**

No aspiration toxicity classification

**C.I. Pigment White 6:**

No aspiration toxicity classification

**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:****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 nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5,600 mg/l  
End point: Immobilization  
Exposure time: 24 h

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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)): > 10,000 mg/l  
 End point: Growth rate  
 Exposure time: 72 h  
 Test Type: static test  
 Analytical monitoring: no  
 Method: OECD Test Guideline 201  
 GLP: yes  
 Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : Remarks: not required

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not required

Toxicity to microorganisms : EC0 (activated sludge): > 400 mg/l  
 End point: Bacteria toxicity (growth inhibition)  
 Exposure time: 3 h  
 Test Type: static test  
 Method: DIN 38412  
 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

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	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
<b>Iron(III)oxide:</b>	
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	: Remarks: not reasonable

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(Chronic toxicity)

Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage):  
> 10,000 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: aquatic  
Method: ISO 8192  
GLP: no

Toxicity to soil dwelling organisms : Remarks: The study is not necessary from a scientific perspective.

Plant toxicity : Remarks: The study is not necessary from a scientific perspective.

Sediment toxicity : Remarks: The study is not necessary from a scientific perspective.

Toxicity to terrestrial organisms : Remarks: The study is not necessary from a scientific perspective.

**C.I. Pigment Brown 24:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38412 T.15  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : Remarks: not required



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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/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: EPA  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

LC50 (*Oncorhynchus mykiss* (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: No information available.  
Remarks: The details of the toxic effect relate to the nominal concentration.

LC50 (*Cyprinodon variegatus* (sheepshead minnow)): > 10,000 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no data available  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

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- Toxicity to daphnia and other aquatic invertebrates : LC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no data available  
Method: OECD Test Guideline 202  
GLP: no data available  
Remarks: The details of the toxic effect relate to the nominal concentration.
- LC50 (*Acartia tonsa*): > 10,000 mg/l  
Exposure time: 48 h  
Analytical monitoring: no data available  
Method: ISO 14669 and PARCOM method  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (microalgae)): 61 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: EPA  
GLP: No information available.  
Remarks: The details of the toxic effect relate to the nominal concentration.
- EC50 (*Skeletonema costatum* (marine diatom)): > 10,000 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Analytical monitoring: no data available  
Method: ISO 10253  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to fish (Chronic toxicity) : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 7.31 mg/l  
Exposure time: 28 d  
Test Type: static test  
Analytical monitoring: yes  
Method: Other  
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

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concentration.

NOEC (activated sludge of a predominantly domestic sewage):  $\geq 1,000$  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  $\rightarrow$   $\geq 10$  %  
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:  $\geq 10$  %  
Exposure time: 20 h  
End point: Growth  
Species: *Lactuca sativa* (lettuce)  
Analytical monitoring: yes  
Method: Other  
GLP: no  
Remarks: By analogy with a product of similar composition  
No effect on the growth was observed.

Sediment toxicity

: NOEC (*Hyalella azteca* (Scud)):  $\geq 100000$  %  
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:  $\geq 14989$  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

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**Persistence and degradability****Components:****C.I. Pigment Black 7:**

Biodegradability : Remarks: Not applicable

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

Biodegradability : aerobic  
Inoculum: activated sludge  
Carbon dioxide (CO<sub>2</sub>)  
Result: Not readily biodegradable.  
Biodegradation: 5.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**Iron(III)oxide:**

Biodegradability : Remarks: Not applicable for inorganic compound.

Physico-chemical  
removability : Remarks: Not applicable**C.I. Pigment Brown 24:**

Biodegradability : Remarks: Not applicable for inorganic compound.

Physico-chemical  
removability : Remarks: Inorganic product, cannot be eliminated from the  
water by biological purification processes.**C.I. Pigment White 6:**

Biodegradability : Remarks: Not applicable for inorganic compound.

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: not tested.

**Components:****C.I. Pigment Black 7:**

Bioaccumulation : Remarks: Not applicable

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

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-  
octanol/water : Remarks: Not applicable**Iron(III)oxide:**

Bioaccumulation : Remarks: Does not accumulate in organisms.

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**C.I. Pigment Brown 24:**

Bioaccumulation : Remarks: Not relevant for inorganic substances

**C.I. Pigment White 6:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 20 - 200  
Exposure time: 14 d  
Concentration: 0.1 - 1 mg/l  
Method: Other  
GLP: No information available.  
Remarks: Does not accumulate in organisms.

Partition coefficient: n-octanol/water : Remarks: inorganic

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: not tested.

**Components:****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

**Iron(III)oxide:**

Mobility : Remarks: Known distribution to environmental compartments

Distribution among environmental compartments : Remarks: Not applicable

**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

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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:****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 water.

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

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

**Iron(III)oxide:**

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

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

**C.I. Pigment Brown 24:**

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : The substance is inorganic, thus a PBT and vPvB criteria assessment is not applicable according to Annex XIII of Regulation (EC) 1907/2006.

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

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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.

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**SECTION 14. TRANSPORT INFORMATION**

**TDG** not restricted

**IATA** not restricted

**IMDG** not restricted

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**SECTION 15. REGULATORY INFORMATION**

**NPRI Components** : Chromium (III) compound  
Antimony 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.

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**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

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	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 / TWA EV	: Time-weighted average exposure value

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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# SAFETY DATA SHEET



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