

# SAFETY DATA SHEET



**ABS 004.000% RED 041**

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Substance key: 000000649991

Revision Date: 06/05/2017

Version : 1 - 0 / CDN

Date of printing :06/05/2017

## 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:**

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

**Emergency tel. number:** +1 800-424-9300 CHEMTREC, +1 (703) 527-3887 INTERNATIONAL

**Trade name:**

**ABS 004.000% RED 041**

**Material number:**

SB34653605

**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

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
C.I. Pigment Black 7	1333-86-4	0.1 - 0.25
C.I. Pigment Red 122	980-26-7	1 - 2.5
N,N'-Ethylenedi(stearamide)	110-30-5	1 - 2.5
Iron(III)oxide	1309-37-1	1 - 2.5

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and by the Canadian WHMIS 2015 Hazardous Products Regulations (SOR/2015-

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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.

**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 (CO<sub>2</sub>)  
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

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Hydrogen cyanide (hydrocyanic acid)  
Acrylonitrile  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Take measures to prevent the build up of electrostatic charge.  
Dust can form an explosive mixture in air.  
Carbon oxides  
Oxides of phosphorus  
Sulphur oxides  
Metal oxides

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

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**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.

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**SECTION 7. HANDLING AND STORAGE**

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

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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.

Technical measures/Precautions : 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	10 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 fraction)	3 mg/m3	ACGIH
Iron(III)oxide	1309-37-1	TWA (Respirable)	5 mg/m3	CA AB OEL
		TWA (Fumes)	5 mg/m3 (Iron)	CA BC OEL
		TWA (Dust)	5 mg/m3 (Iron)	CA BC OEL
		STEL (Fumes)	10 mg/m3 (Iron)	CA BC OEL
		TWAEV (fume and dust)	5 mg/m3 (Iron)	CA QC OEL
		TWA (Respirable fraction)	5 mg/m3	ACGIH

Engineering measures : Use only in area provided with appropriate exhaust

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : Granules
- Colour : red
- 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

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Self-ignition	: Not applicable
Upper explosion limit	: not tested.
Lower explosion limit	: not tested.
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: not available
Density	: not tested.
Solubility(ies) Water solubility	: insoluble
Partition coefficient: n-octanol/water	: This property is not applicable for mixtures.
Decomposition temperature	: To the best of our current knowledge, no thermal decomposition of the product is expected if it is processed according to good manufacturing practices. See section 10.4. "Conditions to avoid"
Viscosity Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: no data available no data available
Oxidizing properties	: not available
Surface tension	: Not relevant
Particle size	: Product specific

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable
Possibility of hazardous 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

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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.

Incompatible materials	:	none no data available Strong oxidizing agents
Hazardous decomposition products	:	Stable under recommended storage conditions. No hazardous decomposition products if stored and handled as prescribed Carbon oxides Oxides of phosphorus

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SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

None known.

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

Acute dermal toxicity : Acute toxicity estimate: 2,634 mg/kg  
Method: Calculation method

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

Acute oral toxicity : LD50 (Rat, male and female): > 8,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC0 (Rat): > 0.0046 mg/l  
Exposure time: 4 h  
Method: Other  
GLP: No information available.

Acute dermal toxicity : Remarks: not required

**C.I. Pigment Red 122:**

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes

Acute inhalation toxicity : LC0 (Rat, male and female): 3.055 mg/l  
Exposure time: 4 h  
Method: OECD Test Guideline 403

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GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: By analogy with a product of similar composition

**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: not reasonable

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

**C.I. Pigment Red 122:**

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

**Iron(III)oxide:**

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



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**Serious eye damage/eye irritation****Product:**

Result: No eye irritation

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

Species: rabbit eye

Result: No eye irritation

Method: OECD Test Guideline 405

GLP: no

**C.I. Pigment Red 122:**

Species: rabbit eye

Result: No eye irritation

Exposure time: 72 h

Method: OECD Test Guideline 405

GLP: yes

**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: non-sensitizing

GLP: yes

**C.I. Pigment Red 122:**

Test Type: Guinea pig maximization test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: non-sensitizing

GLP: yes

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Test Type: Mouse local lymphnode assay  
Exposure routes: Dermal  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: non-sensitizing  
GLP: yes

**Iron(III)oxide:**

Test Type: Maurer optimisation test  
Exposure routes: Skin contact  
Species: Guinea pig  
Method: Other  
Result: ambiguous  
GLP: No information available.

**Germ cell mutagenicity****Components:****C.I. Pigment Black 7:**

Genotoxicity in vitro : Test Type: Ames test  
Species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

: Test Type: Ames test  
Species: Escherichia coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Genotoxicity in vivo : Result: ambiguous

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**C.I. Pigment Red 122:**

Genotoxicity in vitro : Test Type: Ames test  
Species: Salmonella typhimurium  
Concentration: 3 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

: Test Type: Ames test  
Species: Escherichia coli  
Concentration: 3 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 471

Result: negative

GLP: yes

- : Test Type: HGPRT assay  
Species: V79 cells (embryonic lung fibroblasts) of the Chinese hamster  
Concentration: 2 - 20 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes
- : Test Type: Chromosome Aberration Test  
Species: V79 cells (embryonic lung fibroblasts) of the Chinese hamster  
Concentration: 0,31 - 200 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: Mouse (male and female)  
Strain: NMRI  
Cell type: Bone marrow cells  
Application Route: oral (gavage)  
Exposure time: single administration  
Dose: 2500 mg/kg  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

Germ cell mutagenicity -  
Assessment

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

**Iron(III)oxide:**

Genotoxicity in vitro

- : Test Type: Ames test  
Species: 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  
Species: 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

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Result: negative

GLP: yes

Remarks: By analogy with a product of similar composition

- : Test Type: Chromosome aberration test in vitro  
Species: 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****Components:****C.I. Pigment Black 7:**

- Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**C.I. Pigment Red 122:**

- 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

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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.

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

Effects on fertility : Remarks: The study is not necessary from a scientific perspective.

Effects on foetal development : Remarks: The study is not necessary from a scientific perspective.

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

**C.I. Pigment Red 122:**

Reproductive toxicity - Assessment : No teratogenic effects to be expected.

No reproductive toxicity to be expected.

**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.

**C.I. Pigment Red 122:**

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.

**STOT - repeated exposure****Components:****C.I. Pigment Black 7:**

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

**C.I. Pigment Red 122:**

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  
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: Repeated Dose Toxicity (chronic Toxicity)  
GLP: No information available.  
Remarks: The product is non-toxic.

Species: Rat, male  
NOAEL: 0.0011 mg/l  
LOAEL: 0.0071 mg/l  
Application Route: Inhalation  
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: OECD Test Guideline 413  
GLP: No information available.

Species: Mouse, male and female  
Application Route: Skin contact  
Exposure time: 12-18 m

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Number of exposures: 3 times per week  
Dose: 20% carbon black suspensions  
Group: yes  
Method: Repeated Dose Toxicity (chronic Toxicity)  
GLP: no  
Remarks: The product is non-toxic.

**C.I. Pigment Red 122:**

Species: Rat, male and female  
NOAEL: 1,000 mg/kg  
Application Route: oral (gavage)  
Exposure time: 91 d  
Number of exposures: Once a day  
Dose: 50 - 200 - 1000 mg/kg  
Group: yes  
Method: OECD Test Guideline 408  
GLP: yes

Application Route: Inhalation  
Method: Repeated dose toxicity  
Remarks: The study is not necessary from a scientific perspective.

Application Route: Dermal  
Method: Repeated dose toxicity  
Remarks: The study is not necessary from a scientific perspective.

**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/m<sup>3</sup>  
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.

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

No aspiration toxicity classification

**C.I. Pigment Red 122:**

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).

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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 (Brachydanio rerio (zebrafish)): 1,000 mg/l  
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 : EC50 (Daphnia magna (Water flea)): > 5,600 mg/l  
aquatic invertebrates  
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 nominal concentration.

NOEC (Daphnia magna (Water flea)): 3,200 mg/l  
Exposure time: 24 h  
Test Type: static test



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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 : 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.

NOEC (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 reasonable

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

Toxicity to microorganisms : EC0 (activated sludge, domestic): > 400 mg/l  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Method: DEV L 3  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.

Sediment toxicity : Remarks: Not applicable

## **C.I. Pigment Red 122:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: yes

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Remarks: By analogy with a product of similar composition  
The details of the toxic effect relate to the nominal  
concentration.

NOEC (Danio rerio (zebra fish)): 100 mg/l

Exposure time: 96 h

Test Type: semi-static test

Analytical monitoring: no

Method: OECD Test Guideline 203

GLP: yes

Remarks: By analogy with a product of similar composition  
The details of the toxic effect relate to the nominal  
concentration.

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates

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.

NOEC (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 : EC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: No toxicity at the limit of solubility  
The details of the toxic effect relate to the nominal  
concentration.

NOEC (Desmodesmus subspicatus (green algae)): > 10 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: No toxicity at the limit of solubility  
The details of the toxic effect relate to the nominal

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concentration.

EC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l

End point: Biomass

Exposure time: 72 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: No toxicity at the limit of solubility

The details of the toxic effect relate to the nominal concentration.

NOEC (Desmodesmus subspicatus (green algae)): > 10 mg/l

End point: Biomass

Exposure time: 72 h

Test Type: static test

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: No toxicity at the limit of solubility

The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity)

: NOEC (Danio rerio (zebra fish)): >= 10 mg/l

Exposure time: 28 d

Test Type: semi-static test

Analytical monitoring: no

Method: OECD Test Guideline 215

GLP: yes

Remarks: The details of the toxic effect relate to the nominal concentration.

LOEC (Danio rerio (zebra fish)): > 10 mg/l

Exposure time: 28 d

Test Type: semi-static test

Analytical monitoring: no

Method: OECD Test Guideline 215

GLP: yes

Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): > 0.02 mg/l

End point: Reproduction rate

Exposure time: 21 d

Test Type: semi-static test

Analytical monitoring: no

Method: OECD Test Guideline 211

GLP: yes

Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms

: NOEC (activated sludge of a predominantly domestic

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- sewage): > 1,000 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: aquatic  
Analytical monitoring: no  
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  
LC50 (*Eisenia fetida* (earthworms)): > 1,000 mg/kg  
Exposure time: 14 d  
End point: mortality  
Method: OECD Test Guideline 207  
GLP: yes  
Remarks: By analogy with a product of similar composition
- Test Type: artificial soil  
NOEC (*Eisenia fetida* (earthworms)): 1,000 mg/kg  
Exposure time: 14 d  
End point: mortality  
Method: OECD Test Guideline 207  
GLP: yes  
Remarks: By analogy with a product of similar composition
- Remarks: The study is not necessary from a scientific perspective.
- Plant toxicity : (other terrestrial plant): Remarks: The study is not necessary from a scientific perspective.
- Sediment toxicity : NOEC (*Lumbriculus variegatus* (Worm)): 993 mg/kg dry weight (d.w.)  
Analytical monitoring: no  
Duration: 28 d  
Sediment: artificial soil  
Nominal / Measured: nominal  
Basis for effect: mortality  
Method: OECD 225  
GLP: yes
- Toxicity to terrestrial organisms : Remarks: The study is not necessary from a scientific perspective.
- 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

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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 : Exposure time:  
Remarks: not reasonable
- Toxicity to fish (Chronic toxicity) : Remarks: not reasonable
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not reasonable
- Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage): > 10,000 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: aquatic  
Method: ISO 8192
- Toxicity to soil dwelling organisms : Remarks: The study is not necessary from a scientific perspective.
- Plant toxicity : (other terrestrial plant): 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.

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

- Biodegradability : Remarks: Not applicable

**C.I. Pigment Red 122:**

- Biodegradability : aerobic  
Inoculum: activated sludge, domestic, non-adapted  
Concentration: 40 mg/l  
BOD in % of theoretical OD  
Result: Not readily biodegradable.

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Biodegradation: 0 %  
Method: OECD Test Guideline 301F  
GLP: yes

Physico-chemical  
removability : Remarks: Not readily biodegradable.

Stability in water : Test Type: abiotic  
Method: OECD Test Guideline 111  
GLP: yes  
Remarks: Not applicable

## **Iron(III)oxide:**

Biodegradability : Remarks: Not applicable for inorganic compound.

Physico-chemical  
removability : Remarks: Inorganic product, cannot be eliminated from the  
water by biological purification processes.

## **Bioaccumulative potential**

### **Product:**

Bioaccumulation : Remarks: not tested.

### **Components:**

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

Bioaccumulation : Remarks: Not applicable

#### **C.I. Pigment Red 122:**

Bioaccumulation : Remarks: Low potential for bioaccumulation (log Pow < 3).

Partition coefficient: n-  
octanol/water : log Pow: 2.2 (24 °C)  
pH: 7  
Method: OECD Test Guideline 107  
GLP: no data available

## **Iron(III)oxide:**

Bioaccumulation : Remarks: Not relevant for inorganic substances

## **Mobility in soil**

### **Product:**

Distribution among  
environmental compartments : Remarks: not tested.

### **Components:**

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

Mobility : Remarks: Known distribution to environmental compartments

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Distribution among  
environmental compartments : Adsorption/Soil  
Medium: water - soil  
Remarks: Not applicable

**C.I. Pigment Red 122:**

Distribution among  
environmental compartments : adsorption  
Medium: Soil  
Remarks: Not expected to adsorb on soil.

**Iron(III)oxide:**

Mobility : Remarks: Known distribution to environmental compartments

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 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.

**C.I. Pigment Red 122:**

Environmental fate and  
pathways : not available

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

Additional ecological  
information : The product should not be allowed to enter drains, water  
courses or the soil.

**Iron(III)oxide:**

Environmental fate and  
pathways : not available

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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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**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****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**

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



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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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