

ABS GP35 010.000% HIGH GLOSS WHITE W197110

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Substance key: 000000645455

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

SECTION 1. IDENTIFICATION

Identification of the company:

Clariant Plastics and Coatings
Canada Inc.
2 Lone Oak Court
Toronto, Ontario M9C 5R9,
Telephone No.: +1 416-847-7000

Information of the substance/preparation:

ESHA
Phone (514) 832 2559, Fax (704) 330 1505
Canada.PS@Clariant.com

Emergency tel. number: 800-424-9300 (CHEMTREC)**Trade name:****ABS GP35 010.000% HIGH GLOSS WHITE W197110****Material number:**

SB02754404

Synonyms:

ABS GP35 010.000% HIGH GLOSS WHITE W19 (SB02754404)

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 Yellow 164	68412-38-4	< 0.1
C.I. Pigment Black 28	68186-91-4	< 0.1
Styrene	100-42-5	< 0.1
C.I. Pigment Brown 24	68186-90-3	0.1 - 0.25
Limestone	1317-65-3	0.5 - 1

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N,N'-Ethylenedi(stearamide)	110-30-5	2.5 - 3
C.I. Pigment White 6	13463-67-7	40 - 60

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.

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

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- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Styrene
Hydrogen cyanide (hydrocyanic acid)
Acrylonitrile
Carbon monoxide
Carbon dioxide (CO₂)
Take measures to prevent the build up of electrostatic charge.
Dust can form an explosive mixture in air.
Metal oxides
Calcium 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 : 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
C.I. Pigment Brown 24	68186-90-3	TWAEV	0.5 mg/m ³ (antimony)	CA ON OEL
		TWA	0.5 mg/m ³ (antimony)	CA AB OEL
Further information: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required				
		TWAEV	0.5 mg/m ³ (antimony)	CA QC OEL
		TWA	0.5 mg/m ³ (antimony)	CA BC OEL
C.I. Pigment Yellow 164	68412-38-4	TWAEV	5 mg/m ³ (Manganese)	CA QC OEL
		TWAEV	0.5 mg/m ³ (antimony)	CA ON OEL
		TWAEV	0.2 mg/m ³ (Manganese)	CA ON OEL
		TWA	0.5 mg/m ³ (antimony)	CA AB OEL
Further information: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required				
		TWA	0.2 mg/m ³ (Manganese)	CA AB OEL
		TWAEV	0.5 mg/m ³ (antimony)	CA QC OEL

SAFETY DATA SHEET



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		TWAEV (total dust)	0.2 mg/m3 (Manganese)	CA QC OEL
		TWA	0.5 mg/m3 (antimony)	CA BC OEL
		TWA	0.2 mg/m3 (Manganese)	CA BC OEL
	Further information: Adverse reproductive effect			
C.I. Pigment White 6	13463-67-7	TWA	10 mg/m3	CA AB OEL
	Further information: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
		TWA	10 mg/m3	CA BC OEL
	Further information: IARC '2B' applies to substances deemed possibly carcinogenic to humans., The 8-hour TWA listed in the Table is for the total dust. The substance also has an 8-hour TWA of 3 mg/m3 for the respirable fraction.			
		TWAEV (Total)	10 mg/m3	CA ON OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
	Further information: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1 %.			
		TWAEV (total dust)	10 mg/m3	CA QC OEL
	Further information: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1 %.			
Limestone	1317-65-3	TWA	10 mg/m3	CA AB OEL
	Further information: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
		TWA	10 mg/m3	CA BC OEL
	Further information: The 8-hour TWA listed in the Table is for the total dust. The substance also has an 8-hour TWA of 3 mg/m3 for the respirable fraction.			
		STEL	20 mg/m3	CA BC OEL
	Further information: The 8-hour TWA listed in the Table is for the total dust. The substance also has an 8-hour TWA of 3 mg/m3 for the respirable fraction.			
		TWAEV (total dust)	10 mg/m3	CA QC OEL
	Further information: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1 %.			
		TWAEV (total dust)	10 mg/m3	CA QC OEL
	Further information: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1 %.			
Styrene	100-42-5	TWAEV	35 ppm	CA ON OEL
		STEV	100 ppm	CA ON OEL

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		TWA	35 ppm	CA ON OEL
		STEL	100 ppm	CA ON OEL
		TWA	20 ppm 85 mg/m3	CA AB OEL
		STEL	40 ppm 170 mg/m3	CA AB OEL
		TWA	50 ppm	CA BC OEL
	Further information: IARC '2B' applies to substances deemed possibly carcinogenic to humans.			
		STEL	75 ppm	CA BC OEL
	Further information: IARC '2B' applies to substances deemed possibly carcinogenic to humans.			
		TWA	35 ppm	CA ON OEL
		STEL	100 ppm	CA ON OEL
		TWAEV	50 ppm 213 mg/m3	CA QC OEL
	Further information: Skin (percutaneous), Carcinogenic effect detected in animals. Results of studies relating to the carcinogenicity of these substances in animals are not necessarily applicable to humans.			
		STEV	100 ppm 426 mg/m3	CA QC OEL
	Further information: Skin (percutaneous), Carcinogenic effect detected in animals. Results of studies relating to the carcinogenicity of these substances in animals are not necessarily applicable to humans.			

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.
When handling hot melts use suitable protective clothing.

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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	: white
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	: 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"

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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. None known.
Incompatible materials	:	no data available Acids Strong acids and oxidizing agents Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	:	Possible in traces: Nitrogen oxides (NOx) 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: > 5,000 mg/kg
Method: Calculation method

Components:**Styrene:**

Acute oral toxicity : LD50 (Rat): 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 11.8 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

C.I. Pigment Brown 24:

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

Acute inhalation toxicity : Remarks: Not applicable

Acute dermal toxicity : Remarks: Not applicable

C.I. Pigment White 6:

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

Acute inhalation toxicity : LC50 (Rat, male and female): 3.4 - 5.1 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403
GLP: no

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Not applicable

Skin corrosion/irritation**Product:**

Result: No skin irritation

Components:**Styrene:**

Result: Skin irritation

C.I. Pigment Brown 24:

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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:**Styrene:**

Result: Eye irritation

C.I. Pigment Brown 24:

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

C.I. Pigment White 6:

Species: rabbit eye
Result: non-irritant
Method: OECD Test Guideline 405
GLP: No information available.

Respiratory or skin sensitisation**Product:**

Result: non-sensitizing

Components:**Styrene:**

Result: Does not cause skin sensitisation.

C.I. Pigment Brown 24:

Remarks: Not applicable

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C.I. Pigment White 6:

Test Type: Mouse local lymphnode assay

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: non-sensitizing

GLP: No information available.

Test Type: Buehler Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: non-sensitizing

GLP: yes

Test Type: Respiratory system

Exposure routes: inhalation (dust/mist/fume)

Species: Mouse

Method: Other

Result: Does not cause respiratory sensitisation.

GLP: No information available.

Germ cell mutagenicity**Components:****Styrene:**

Genotoxicity in vitro : Remarks: no data available

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

C.I. Pigment Brown 24:

Genotoxicity in vitro : Test Type: Ames test
Species: Salmonella typhimurium
Concentration: 100 - 5000 µg/plate
Metabolic activation: with and without
Method: OECD Test Guideline 471
Result: negative
GLP: yes

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

: Test Type: Chromosome aberration test in vitro
Species: Chinese hamster lung cells
Concentration: 0,5 - 900 µg/ml
Metabolic activation: with and without

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Method: OECD Test Guideline 487

Result: negative

GLP: yes

- : Test Type: In vitro gene mutation study in mammalian cells
Species: mouse lymphoma cells
Concentration: 3,13 - 100 µg/ml
Metabolic activation: with and without
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
Species: Salmonella typhimurium
Concentration: 333 - 5000 µg/plate
Metabolic activation: with and without
Method: OECD Test Guideline 471
Result: negative
GLP: yes

- : Test Type: Ames test
Species: Escherichia coli
Concentration: 333 - 5000 µg/plate
Metabolic activation: with and without
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Genotoxicity in vivo

- : Test Type: Micronucleus test
Species: Mouse (male and female)
Strain: ICR
Cell type: Erythrocytes
Application Route: oral (gavage)
Exposure time: single treatment
Dose: 500 - 1000 - 2000 mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Germ cell mutagenicity -
Assessment

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

Carcinogenicity**Components:****Styrene:**

Carcinogenicity -
Assessment

- : Not classifiable as a human carcinogen.

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C.I. Pigment Brown 24:

Carcinogenicity - : Not classifiable as a human carcinogen.
Assessment

C.I. Pigment White 6:

Carcinogenicity - : Not classifiable as a human carcinogen.
Assessment

Reproductive toxicity**Components:****Styrene:**

Effects on fertility :

Remarks: Based on available data, the classification criteria are not met.

Reproductive toxicity - : No reproductive toxicity to be expected.
Assessment Suspected of damaging the unborn child.

C.I. Pigment Brown 24:

Effects on fertility :

Test Type: One generation study
Species: Rat
Sex: male and female
Dose: 250 - 500 - 1000 mg/kg
Exposure time: 41-45 d (f), 46 d (m)
Frequency of Treatment: daily
Sprague-Dawley
Application Route: oral (gavage)
Group: yes
NOAEL: $\geq 1,000$ mg/kg,
F1: $\geq 1,000$ mg/kg,
Method: OECD Test Guideline 422
GLP: yes

Effects on foetal development : Species: Rat
Application Route: oral (gavage)
Exposure time: 41-45 d (f), 46 d (m)
Dose: 250 - 500 - 1000 mg/kg
Group: yes
 $\geq 1,000$ mg/kg
 $\geq 1,000$ mg/kg
Number of exposures: daily
Method: OECD Test Guideline 422
GLP: yes

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

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C.I. Pigment White 6:

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.**STOT - single exposure****Components:****Styrene:**

Assessment: May cause respiratory irritation.

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:****Styrene:**

Assessment: Causes damage to organs through prolonged or 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:****Styrene:**

Remarks: This information is not available.

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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
NOAEL: 24,000 mg/kg
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

Application Route: Skin contact
Remarks: The study is not necessary from a scientific perspective.

Aspiration toxicity**Components:****Styrene:**

May be fatal if swallowed and enters airways.

C.I. Pigment Brown 24:

No aspiration toxicity classification

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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.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish :
Remarks: no data available

Components:**Styrene:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.02 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.7 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 4.9 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : EC50 (other bacteria): 500 mg/l
Exposure time: 0.5 h

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial : Remarks: Not applicable

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organisms

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 : 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

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

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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.

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 : 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.

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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 daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Not applicable

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): $\geq 1,000$ 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 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.

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Plant toxicity : NOEC (Lactuca sativa (lettuce)): ≥ 10 %
Exposure time: 20 h
End point: Growth
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 (Hyaella azteca (Scud)): ≥ 100000 %
Analytical monitoring: no
Sediment: artificial soil
Exposure duration: 28 d
Nominal / Measured: nominal
Basis for effect: mortality
Test substance: artificial soil
Analytical monitoring: no
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
Test substance: Natural sediment
Analytical monitoring: no data available
Method: Other
GLP: yes

Toxicity to terrestrial organisms : Remarks: Not applicable

Persistence and degradability**Components:****Styrene:**

Biodegradability : aerobic
Result: Readily biodegradable.
Biodegradation: 70.9 %
Exposure time: 28 d

C.I. Pigment Brown 24:

Biodegradability : Remarks: Not applicable for inorganic compound.

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

C.I. Pigment White 6:

Biodegradability : Remarks: Not applicable for inorganic compound.

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Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: not tested.

Components:**Styrene:**

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

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.

Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: not tested.

Components:**Styrene:**

Distribution among environmental compartments : Remarks: no data available

C.I. Pigment Brown 24:

Distribution among environmental compartments : Remarks: Not applicable

C.I. Pigment White 6:

Mobility : Remarks: Adsorption to solid soil phase is possible.

Distribution among environmental compartments : Adsorption/Soil
Medium: water - soil
log Koc: 4.61
Method: Other

Other adverse effects**Product:**

Results of PBT and vPvB : Remarks: No information is available as no chemical safety

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assessment report (CSR) is required.

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

Components:**Styrene:**

Environmental fate and pathways : no data available

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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

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.

C.I. Pigment White 6:

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.

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

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IATA	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION

NPRI Components : Chromium (III) compound
Antimony compounds
Manganese Compound
Copper Compound
Styrene

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**

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

SAFETY DATA SHEET



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