

## ABS ABS 004.000% METALLIC SILVER

Page 1

Substance key: 000000645405

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 ABS 004.000% METALLIC SILVER****Material number:**

SBS2754405

**Synonyms:**

ABS ABS 004.000% METALLIC SILVER (SBS2754405)

**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) |
|-----------------------------|------------|-----------------------|
| Styrene                     | 100-42-5   | < 0.1                 |
| C.I. Pigment Yellow 164     | 68412-38-4 | 0.1 - 0.25            |
| N,N'-Ethylenedi(stearamide) | 110-30-5   | 1 - 2.5               |
| C.I. Pigment White 6        | 13463-67-7 | 7 - 10                |
| Mica-Group minerals         | 12001-26-2 | 10 - 20               |

## ABS ABS 004.000% METALLIC SILVER

Page 2

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

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.<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.  |

**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 firefighting | : | In case of fire hazardous decomposition products may be produced such as: |

## ABS ABS 004.000% METALLIC SILVER

Page 3

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

Styrene  
Hydrogen cyanide (hydrocyanic acid)  
Acrylonitrile  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Take measures to prevent the build up of electrostatic charge.  
Dust can form an explosive mixture in air.  
Metal oxides

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

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.
- Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
Use only with adequate ventilation/personal protection.  
For personal protection see section 8.  
Avoid contact with skin, eyes and clothing.  
Use only with adequate ventilation.  
When handling hot melts use suitable protective clothing.

## ABS ABS 004.000% METALLIC SILVER

Page 4

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

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<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|---|------------|----------------------------------|---|-----------|
| C.I. Pigment Yellow 164   | 68412-38-4 | TWAEV                            | 5 mg/m <sup>3</sup><br>(Manganese)                | CA QC OEL |
|   |            | TWAEV                            | 0.5 mg/m <sup>3</sup><br>(antimony)               | CA ON OEL |
|   |            | TWAEV                            | 0.2 mg/m <sup>3</sup><br>(Manganese)              | CA ON OEL |
|   |            | TWA                              | 0.5 mg/m <sup>3</sup><br>(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 <sup>3</sup><br>(Manganese)              | CA AB OEL |
|   |            | TWAEV                            | 0.5 mg/m <sup>3</sup><br>(antimony)               | CA QC OEL |
|   |            | TWAEV<br>(total dust)            | 0.2 mg/m <sup>3</sup><br>(Manganese)              | CA QC OEL |
|   |            | TWA                              | 0.5 mg/m <sup>3</sup><br>(antimony)               | CA BC OEL |
|   |            | TWA                              | 0.2 mg/m <sup>3</sup><br>(Manganese)              | CA BC OEL |
| Further information: Adverse reproductive effect  |            |                                  |   |           |
| C.I. Pigment White 6  | 13463-67-7 | TWA                              | 10 mg/m <sup>3</sup>                              | 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/m <sup>3</sup>                              | CA BC OEL |
| Further information: IARC '2B' applies to substances deemed possibly carcinogenic to humans., The 8-hour TWA listed in the                                  |            |                                  |   |           |

## ABS ABS 004.000% METALLIC SILVER

Page 5

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

|                     |  |   |                      |           |
|---------------------|--|---|----------------------|-----------|
|                     |  | 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 %.  |   |                      |           |
| Styrene             | 100-42-5   | TWAEV   | 35 ppm               | CA ON OEL |
|                     |  | STEV  | 100 ppm              | CA ON OEL |
|                     |  | TWA   | 35 ppm               | CA ON OEL |
|                     |  | STEL  | 100 ppm              | CA ON OEL |
|                     |  | TWA   | 20 ppm<br>85 mg/m3   | CA AB OEL |
|                     |  | STEL  | 40 ppm<br>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<br>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<br>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. |   |                      |           |
| Mica-Group minerals | 12001-26-2   | TWA (Respirable)  | 3 mg/m3              | CA AB OEL |
|                     |  | TWA (Respirable)  | 3 mg/m3              | CA BC OEL |
|                     |  | TWAEV (Respirable)  | 3 mg/m3              | CA ON OEL |
|                     | Further information: The value is for particulate matter containing no asbestos and less than 1% crystalline silica.   |   |                      |           |
|                     |  | TWAEV (respirable)  | 3 mg/m3              | CA QC OEL |

## ABS ABS 004.000% METALLIC SILVER

Page 6

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

|  |   |                               |         |           |
|--|---|-------------------------------|---------|-----------|
|  |   | dust)                         |         |           |
|  | Further information: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1 %. |                               |         |           |
|  |   | TWAEV<br>(respirable<br>dust) | 3 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 %. |                               |         |           |

**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.

**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** : silver colours

**Odour** : characteristic

**Odour Threshold** : Not applicable

## ABS ABS 004.000% METALLIC SILVER

Page 7

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

|  |   |   |
|--|---|---|
| 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" |
| Viscosity                              |   |   |
| Viscosity, dynamic                     | : | Not applicable  |
| Viscosity, kinematic                   | : | Not applicable  |
| Explosive properties                   | : | no data available<br>no data available  |
| Oxidizing properties                   | : | not available   |
| Surface tension                        | : | Not relevant  |
| Particle size                          | : | Product specific  |

## SECTION 10. STABILITY AND REACTIVITY

## ABS ABS 004.000% METALLIC SILVER

Page 8

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

|                                    |   |  |
|------------------------------------|---|--|
| 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.<br>Heating can release hazardous gases.<br>Keep away from heat, sparks, open flames, and other sources of ignition.<br>If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.<br>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.<br>None known. |
| Incompatible materials             | : | no data available  |
| Hazardous decomposition products   | : | No hazardous decomposition products if stored and handled as prescribed  |

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

None known.

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

Acute 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 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



## ABS ABS 004.000% METALLIC SILVER

Page 9

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

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 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 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.

## ABS ABS 004.000% METALLIC SILVER

Page 10

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

**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 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

## ABS ABS 004.000% METALLIC SILVER

Page 11

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

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.

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

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

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

Effects on fertility :

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

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

**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.

## ABS ABS 004.000% METALLIC SILVER

Page 12

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

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

Assessment: May cause respiratory irritation.

**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 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.

**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.

## ABS ABS 004.000% METALLIC SILVER

Page 13

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

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

May be fatal if swallowed and enters airways.

**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:****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

## ABS ABS 004.000% METALLIC SILVER

Page 14

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

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.

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

## ABS ABS 004.000% METALLIC SILVER

Page 15

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

- 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.  
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 : Test Type: artificial soil

## ABS ABS 004.000% METALLIC SILVER

Page 16

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

organisms NOEC (Folsomia candida): 0,1 ->= 10 %  
Exposure time: 28 d  
End point: mortality  
Method: ISO 11267  
GLP: no  
Remarks: By analogy with a product of similar composition  
This product does not have any known adverse effect on the soil organisms tested.

Plant toxicity : NOEC (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 (Hyalella 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



## ABS ABS 004.000% METALLIC SILVER

Page 17

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

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

Biodegradability : Remarks: Not applicable for inorganic compound.

**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 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 White 6:**

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

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

**Other adverse effects****Product:**

Results of PBT and vPvB assessment : Remarks: No information is available as no chemical safety report (CSR) is required.

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

## ABS ABS 004.000% METALLIC SILVER

Page 18

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

**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 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
- IATA** not restricted
- IMDG** not restricted

**SECTION 15. REGULATORY INFORMATION**

- NPRI Components** : Antimony compounds  
Manganese Compound  
Styrene

**The components of this product are reported in the following inventories:**

- DSL** : All components of this product are on the Canadian DSL

## ABS ABS 004.000% METALLIC SILVER

Page 19

Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

**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

Revision Date : 10/21/2016

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# SAFETY DATA SHEET



**ABS ABS 004.000% METALLIC SILVER**

Page 20

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Substance key: 000000645405

Revision Date: 10/21/2016

Version : 1 - 0 / CDN

Date of printing :05/07/2019

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