

**K-RES ABS GP35 005.000% #2416 BLACK**

Page 1

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

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**SECTION 1. IDENTIFICATION****Identification of the company:**

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

**Information of the substance/preparation:**

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

**Emergency tel. number:** +1 CANUTEC (613) 996-6666**Trade name:****K-RES ABS GP35 005.000% #2416 BLACK****Material number:**

SA94765600

**Synonyms:**

07MBS-787

**Chemical family:**

Colourant preparation  
Carrier: SAN

**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: SAN

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
C.I. Pigment Blue 15:1	147-14-8	0.1 - 1
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl derivs.	68411-06-3	0.1 - 1
Styrene	100-42-5	0.1 - 1

**K-RES ABS GP35 005.000% #2416 BLACK**

Page 2

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

N,N'-Ethylenedi(stearamide)	110-30-5	1 - 5
C.I. Pigment Black 7	1333-86-4	5 - 10
2-Propenenitrile, polymer with ethenylbenzene	9003-54-7	60 - 80

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 (CO<sub>2</sub>)  
Dry chemical

**K-RES ABS GP35 005.000% #2416 BLACK**

Page 3

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:  
Styrene  
Hydrogen cyanide (hydrocyanic acid)  
Acrylonitrile  
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.  
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.  
Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Styrene  
Hydrocarbons
- 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.

**K-RES ABS GP35 005.000% #2416 BLACK**

Page 4

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

**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.  
Avoid dust formation. Keep away from sources of ignition.  
Lead off electrostatic charges.

Conditions for safe storage : Keep container tightly closed in a cool, well-ventilated place.  
Protect from moisture.  
Keep away from direct sunlight.

Further information on storage conditions : Store in a cool, dry, well-ventilated area. Keep container sealed when not in use.  
Keep in an area equipped with sprinklers.  
Minimize dust generation and accumulation.

Materials to avoid : not required

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
N,N'-Ethylenedi(stearamide)	110-30-5	TWA	10 mg/m3	CA AB OEL
		TWA	10 mg/m3	CA BC OEL
		TWA (Inhalable particulate matter)	10 mg/m3	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH
C.I. Pigment Blue 15:1	147-14-8	TWA	1 mg/m3 (Copper)	NIOSH REL
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (1,3-	68411-06-3	TWA	1 mg/m3 (Copper)	NIOSH REL

## K-RES ABS GP35 005.000% #2416 BLACK

Page 5

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl derivs.				
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 particulate matter)	3 mg/m3	ACGIH
Styrene	100-42-5	TWA	20 ppm 85 mg/m3	CA AB OEL
		STEL	40 ppm 170 mg/m3	CA AB OEL
		TWA	50 ppm	CA BC OEL
		STEL	75 ppm	CA BC OEL
		TWA	35 ppm	CA ON OEL
		STEL	100 ppm	CA ON OEL
		STEV	100 ppm 426 mg/m3	CA QC OEL
		TWAEV	50 ppm 213 mg/m3	CA QC OEL
		TWA	20 ppm	ACGIH
		STEL	40 ppm	ACGIH

**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

**K-RES ABS GP35 005.000% #2416 BLACK**

Page 6

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

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	: black
Odour	: characteristic
Odour Threshold	: Not applicable
pH	: Not applicable
Melting point	: > 105 °C
Boiling point	: Not applicable
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: not determined
Self-ignition	: Not applicable
Upper explosion limit / upper flammability limit	: not tested.
Lower explosion limit / Lower flammability limit	: not tested.
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: not available
Density	: not tested.
Solubility(ies) Water solubility	: insoluble
Partition coefficient: n-octanol/water	: This property is not applicable for mixtures.
Decomposition temperature	: To the best of our current knowledge, no thermal decomposition of the product is expected if it is processed

**K-RES ABS GP35 005.000% #2416 BLACK**

Page 7

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

according to good manufacturing practices.  
See section 10.4. "Conditions to avoid"

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

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: To avoid thermal decomposition, do not overheat. Heating can release hazardous gases. Keep away from heat, sparks, open flames, and other sources of ignition. If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Keep away from heat and sources of ignition.
Incompatible materials	: no data available None. Strong oxidizing agents
Hazardous decomposition products	: Possible in traces: Nitrogen oxides (NOx) No hazardous decomposition products if stored and handled as prescribed No decomposition if stored and applied as directed.

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

**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:****C.I. Pigment Blue 15:1:**

Acute oral toxicity : LD50 (Rat, male and female): > 6,400 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rat, male): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

Acute toxicity (other routes of administration) : LD50 (Mouse, male and female): > 2,000 mg/kg  
Application Route: Intraperitoneal injection  
Method: internal test  
Test substance: other TS  
GLP: no

**Styrene:**

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

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

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

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

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.3 mg/l  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402

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



# SAFETY DATA SHEET



**K-RES ABS GP35 005.000% #2416 BLACK**

Page 9

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

- Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Remarks: No significant adverse effects were reported
- Acute inhalation toxicity : LC0 (Rat): > 0.0046 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: No information available.  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : Remarks: not required

## **Skin corrosion/irritation**

### **Product:**

Result: No skin irritation

### **Components:**

#### **C.I. Pigment Blue 15:1:**

Species: Rabbit  
Exposure time: 20 h  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: no

#### **Styrene:**

Result: Irritating to skin.

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

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

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

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

## **Serious eye damage/eye irritation**

### **Product:**

Result: No eye irritation

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

**Components:****C.I. Pigment Blue 15:1:**

Species: Rabbit

Result: No eye irritation

Exposure time: 24 h

Method: OECD Test Guideline 405

GLP: no

**Styrene:**

Result: Irritating to eyes.

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

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

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

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

GLP: no

**Respiratory or skin sensitisation****Product:**

Result: non-sensitizing

**Components:****C.I. Pigment Blue 15:1:**

Test Type: Local lymph node assay (LLNA)

Exposure routes: Dermal

Species: Mouse

Method: OECD Test Guideline 429

Result: Not a skin sensitizer.

GLP: yes

Test Type: Maximisation Test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: yes

**Styrene:**

Result: Does not cause skin sensitisation.

**K-RES ABS GP35 005.000% #2416 BLACK**

Page 11

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

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

Species: Mouse

Method: OECD Test Guideline 429

Result: Not a skin sensitizer.

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

Test Type: Buehler Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: yes

**Germ cell mutagenicity****Components:****C.I. Pigment Blue 15:1:**

Genotoxicity in vitro

: Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 20 - 10000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: no

Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 25 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster cells  
Concentration: 750 - 3000 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: Other  
Result: negative  
GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test  
Test system: rat hepatocytes  
Method: OECD Test Guideline 482  
Result: negative  
GLP: yes

Genotoxicity in vivo

: Test Type: in vivo assay  
Species: Mouse (male and female)  
Strain: C57BL/6 x DBA/2  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 484

**K-RES ABS GP35 005.000% #2416 BLACK**

Page 12

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

Result: negative  
GLP: No information available.

Test Type: Micronucleus test  
Species: Hamster (male and female)  
Cell type: Bone marrow cells  
Application Route: oral (gavage)  
Exposure time: 48 h  
Dose: 1250 - 2500 - 5000 mg/kg  
Method: Other  
Result: negative  
GLP: No information available.

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

**Styrene:**

Genotoxicity in vitro : Remarks: no data available

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

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

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

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Test Type: Mammalian cell gene mutation assay  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

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

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

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

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

Test Type: In vitro gene mutation study in mammalian cells

Test system: Rodent cell line

Metabolic activation: without

Method: OECD Test Guideline 476

Result: positive

GLP: No information available.

Test Type: Micronucleus test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

GLP: yes

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

**Carcinogenicity****Components:****C.I. Pigment Blue 15:1:**

Carcinogenicity - Assessment : No information available.

**Styrene:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

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

Carcinogenicity - Assessment : No information available.

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

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Reproductive toxicity****Components:****C.I. Pigment Blue 15:1:**

Effects on fertility : Test Type: One generation study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 0, 40, 200, 1000 mg/kg bw/day  
Duration of Single Treatment: > 46 d  
General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight  
General Toxicity F1: NOAEL: 1,000 mg/kg body weight

## K-RES ABS GP35 005.000% #2416 BLACK

Page 14

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

Method: OECD Test Guideline 421

GLP: yes

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 40, 200, 1000 mg/kg bw/day  
Duration of Single Treatment: > 46 d  
General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight  
Teratogenicity: NOAEL: 1,000 mg/kg body weight  
Developmental Toxicity: NOAEL: 1,000 mg/kg body weight  
Method: OECD Test Guideline 421  
GLP: yes

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

**Styrene:**

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

Reproductive toxicity - Assessment : Suspected human reproductive toxicant

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

Effects on foetal development : Test Type: Pre-natal  
Species: Rat  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
General Toxicity Maternal: NOAEL: >= 1,000 mg/kg body weight  
Method: OECD Test Guideline 414

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

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

Effects on foetal development : Test Type: Pre-natal  
Species: Rabbit, male and female  
Strain: New Zealand white  
Application Route: Inhalation  
Dose: 10% diesel exhaust emission  
Duration of Single Treatment: 12 d  
Method: OECD Test Guideline 414  
Result: No effects on fertility and early embryonic development were detected.  
GLP: no  
Remarks: By analogy with a product of similar composition

Reproductive toxicity - : No evidence of adverse effects on sexual function and fertility,

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

Assessment or on development, based on animal experiments.

**STOT - single exposure****Components:****C.I. Pigment Blue 15:1:**

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

**Styrene:**

Assessment: May cause respiratory irritation.

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

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

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

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

**STOT - repeated exposure****Components:****C.I. Pigment Blue 15:1:**

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

**Styrene:**

Target Organs: hearing organs

Assessment: Causes damage to organs through prolonged or repeated exposure.

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

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

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

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

**Repeated dose toxicity****Components:****C.I. Pigment Blue 15:1:**

Species: Rat, male and female

NOAEL: ca. 4500 mg/kg bw/day

Application Route: oral (feed)

**K-RES ABS GP35 005.000% #2416 BLACK**

Page 16

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

Exposure time: 90 d  
Number of exposures: daily  
Dose: 0, 0.3, 0.6, 1.25, 2.5 and 5 %  
Group: yes  
Method: OECD Test Guideline 408  
GLP: no

**Styrene:**

Remarks: This information is not available.

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

Species: Rat, male and female  
NOEL:  $\geq 1000$  mg/kg bw/day  
Application Route: oral (gavage)  
Method: OECD Test Guideline 408

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

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

Species: Rat, male  
NOAEL: 0.0011 mg/l  
LOAEL: 0.0071 mg/l  
Application Route: Inhalation  
Test atmosphere: dust/mist  
Exposure time: 13 w  
Number of exposures: 6 h per day; 5 d per week  
Dose: 1,1 - 7,1 - 52,8 mg/m<sup>3</sup>  
Group: yes  
Method: Other  
GLP: No information available.

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



Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

**Aspiration toxicity****Components:****C.I. Pigment Blue 15:1:**

No aspiration toxicity classification

**Styrene:**

May be fatal if swallowed and enters airways.

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

no data available

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

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 Blue 15:1:**

Test Type: adsorption

Remarks: Not applicable

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

Toxicity to fish :  
Remarks: no data available

**Components:****C.I. Pigment Blue 15:1:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.

## K-RES ABS GP35 005.000% #2416 BLACK

Page 18

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

- Toxicity to algae/aquatic plants : ErC50 (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: By analogy with a product of similar composition  
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) : NOEC (Daphnia magna (Water flea)): > 1 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: The details of the toxic effect relate to the nominal concentration.
- Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: static test  
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  
  
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
- Sediment toxicity : NOEC (Lumbriculus variegatus (Worm)): 1000 mg/kg dry weight (d.w.)  
Analytical monitoring: no  
Sediment: artificial soil

## K-RES ABS GP35 005.000% #2416 BLACK

Page 19

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

Exposure duration: 28 d  
Basis for effect: mortality  
Method: OECD 225  
GLP: yes

**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/aquatic plants : 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 (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 organisms : Remarks: Not applicable

**Ecotoxicology Assessment**

- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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

- Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 0.027 mg/l  
End point: mortality  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0022 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility

**K-RES ABS GP35 005.000% #2416 BLACK**

Page 20

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

Toxicity to algae/aquatic plants	: NOEC (Pseudokirchneriella subcapitata (algae)): 0.053 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity)	: Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EC50 (Daphnia magna (Water flea)): 0.0056 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility
Toxicity to microorganisms	: EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209
Toxicity to soil dwelling organisms	: NOEC (Eisenia fetida (earthworms)): >= 1,000 mg/kg Exposure time: 56 d Method: OECD Test Guideline 222
Sediment toxicity	: NOEC: >= 1000 mg/kg dry weight (d.w.) Test Type: static test Sediment: Artificial sediment Exposure duration: 28 d Method: OECD Test Guideline 218

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

Toxicity to fish	: LC0 (Danio rerio (zebra fish)): 1,000 mg/l End point: mortality Exposure time: 96 h Test Type: semi-static test Analytical monitoring: no Method: OECD Test Guideline 203 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 5,600 mg/l End point: Immobilization Exposure time: 24 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l End point: Growth rate

## K-RES ABS GP35 005.000% #2416 BLACK

Page 21

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

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

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

Toxicity to microorganisms : EC0 (activated sludge): > 400 mg/l  
End point: Bacteria toxicity (growth inhibition)  
Exposure time: 3 h  
Test Type: static test  
Method: DIN 38412  
GLP: no

Toxicity to soil dwelling organisms : Test Type: Other  
Method: Other  
GLP: No information available.  
Remarks: This product does not have any known adverse effect on the soil organisms tested.

**Persistence and degradability****Components:****C.I. Pigment Blue 15:1:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 107 mg/l  
Biochemical Oxygen Demand (BOD)  
Result: Not biodegradable  
Biodegradation: < 1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: no

Physico-chemical removability : Remarks: Not readily biodegradable.

Stability in water : Remarks: Not applicable

Photodegradation : Test Type: air  
Sensitiser: OH  
Concentration: 50,000 1/cm<sup>3</sup>  
Rate constant: 8.525E-11 cm<sup>3</sup>/s  
Method: other (calculated)  
GLP: no

## K-RES ABS GP35 005.000% #2416 BLACK

Page 22

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

**Styrene:**

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

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

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

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

Biodegradability : Remarks: Not applicable

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

Bioaccumulation : Remarks: not tested.

**Components:****C.I. Pigment Blue 15:1:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

**Styrene:**

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

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

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

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

Bioaccumulation : Remarks: Not applicable

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

## K-RES ABS GP35 005.000% #2416 BLACK

Page 23

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

Distribution among environmental compartments : Remarks: not tested.

**Components:****C.I. Pigment Blue 15:1:**

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

**Styrene:**

Distribution among environmental compartments : Remarks: no data available

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

Distribution among environmental compartments : log Koc: 8.6 - 8.91  
Method: calculated

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

Distribution among environmental compartments : Adsorption/Soil  
Medium: water - soil  
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 Blue 15:1:**

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.

**Styrene:**

Environmental fate and pathways : no data available

Results of PBT and vPvB : This substance is not considered to be persistent,

## K-RES ABS GP35 005.000% #2416 BLACK

Page 24

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

assessment

bioaccumulating and toxic (PBT).

Additional ecological  
information: The product should not be allowed to enter drains, water  
courses or the soil.**N,N'-Ethylenedi(stearamide):**Results of PBT and vPvB  
assessment: The substance is not identified as a PBT or as a vPvB  
substance.**C.I. Pigment 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.

**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**: C.I. Pigment Blue 15:1  
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-,  
(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl derivs.**The components of this product are reported in the following inventories:**

DSL

: All components of this product are on the Canadian DSL



Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

**Canadian lists**

No substances are subject to a Significant New Activity Notification.

**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	short-term exposure limit
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA ON OEL / STEL	:	Short-Term Exposure Limit (STEL)
CA QC OEL / TWA	:	Time-weighted average exposure value
CA QC OEL / STEL	:	Short-term exposure value
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

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; 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

Substance key: 000000650554

Revision Date: 02/27/2020

Version : 1 - 1 / CDN

Date of printing :04/06/2020

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 : 02/27/2020

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