

## ABS PVC 003.000% M38539 ULTRA BLUE

Page 1

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

## **SECTION 1. IDENTIFICATION**

Identification of the	Avient Colorants Canada Inc.
company:	2 Lone Oak Court
	Toronto, Ontario, M9C 5R9
	Telephone No.: +1 514-832-2559
	Information of the substance/preparation:
	Product Stewardship
	e-mail: SDS.NORAMMB@Clariant.com
	Emergency tel. number: +1 CANUTEC (613) 996-6666
	ABS PVC 003.000% M38539 ULTRA BLUE SB53754455
Trade name: Material number: Chemical family:	

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

## **GHS** label elements

Not a hazardous substance or mixture.

#### Other hazards

Hazards Not Otherwise Classified: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Colourant preparation Carrier: ABS

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
C.I. Pigment Black 7	1333-86-4	0.1 - 1
Aluminium oxide	1344-28-1	0.1 - 1
5,12-dihydro-2,9-dimethylquino[2,3- b]acridine-7,14-dione	980-26-7	1 - 5
N,N'-Ethylenedi(stearamide)	110-30-5	1 - 5
C.I. Pigment Blue 15:3	147-14-8	5 - 10
C.I. Pigment White 6	13463-67-7	10 - 30

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-



Page 2

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

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
Specific hazards during firefighting	:	In case of fire hazardous decomposition products may be produced such as: Styrene Hydrogen cyanide (hydrocyanic acid)

## ABS PVC 003.000% M38539 ULTRA BLUE



Page 3

ubstance key: 000000650007	Revision Date: 09/22/2020
ersion : 1 - 2 / CDN	Date of printing :01/18/2022
	Acrylonitrile Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx) Take measures to prevent the build up of electrostatic charge. Dust can form an explosive mixture in air. Sulphur oxides Metal oxides
Further information	<ul> <li>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.</li> <li>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.</li> </ul>
Special protective equipment for firefighters	: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.
ECTION 6. ACCIDENTAL RELEA	SE 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	<ul> <li>Avoid dust formation.</li> <li>Take measures to prevent the build up of electrostatic charge Sweep up and shovel into suitable containers for disposal.</li> <li>Take up uncontaminated material and pass on for further processing.</li> <li>After cleaning, flush away traces with water.</li> </ul>

## 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.





Page 4

Substance key: 000000650007 Version : 1 - 2 / CDN	Revision Date: 09/22/2020 Date of printing :01/18/2022
	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 15:3	147-14-8	TWA	1 mg/m3 (Copper)	NIOSH REL
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
C.I. Pigment White 6	13463-67-7	TWA	10 mg/m3	CA AB OEL
		TWA (Total dust)	10 mg/m3	CA BC OEL
		TWA (respirable dust fraction)	3 mg/m3	CA BC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
Aluminium oxide	1344-28-1	TWA	10 mg/m3	CA AB OEL
		TWAEV	10 mg/m3	CA QC OEL



## ABS PVC 003.000% M38539 ULTRA BLUE

Page 5

stance key: 000000650007					e: 09/22/2020
sion : 1 - 2 / CDN				Date of printin	g :01/18/2022
	I		(total dust)	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	1
			(total dust)	(Aluminium)	
			TWA	1 mg/m3	CA BC OE
			(Respirable)	(Aluminium)	
			TWA	1 mg/m3	ACGIH
			(Respirable	(Aluminium)	
			particulate		
			matter)		
Engineering measures	:	ventilation. Provide appro places where Use engineeri	priate exhaust v dust can be ger ng controls sucl	n appropriate exha ventilation at mach herated. h as local or gener ons below exposur	inery and at al exhaust to
Personal protective equip	nent				
Respiratory protection	:	<ul> <li>Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume generated.</li> <li>Use respiratory protective equipment when using this at elevated temperatures (see section 8).</li> </ul>			fume may be
Hand protection					
Remarks		Nitrile rubber	gloves. Impervic	ous butyl rubber glo	oves PVC
			ves When hand	ling hot material, u	
Eye protection	:	Safety glasses	s with side-shiel	ds	
Skin and body protection	:	Wear protectiv	ve clothing, inclu	uding long sleeves	and gloves,
		to prevent skir		- <b>-</b>	<b>C</b>
				suitable protective	clothing.
Hygiene measures		The usual Ind	ustrial Hygiene i	precautions must b	ne taken
Trygione measures		during work, in the handling c	n particular: do r	not drink, eat or sm id clean hands and	noke during

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Granules
Colour	:	blue
Odour	:	characteristic
Odour Threshold	:	Not applicable
рН	:	Not applicable



## ABS PVC 003.000% M38539 ULTRA BLUE

stance key: 000000650007		Revision Date: 09/22/20
sion : 1 - 2 / CDN		Date of printing :01/18/20
Melting point	:	> 90 °C
Boiling point	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Self-ignition	:	Not applicable
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	not available
Density	:	not tested.
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	This property is not applicable for mixtures.
Decomposition temperature	:	To the best of our current knowledge, no thermal decomposition of the product is expected if it is processed according to good manufacturing practices. See section 10.4. "Conditions to avoid"
Viscosity		Not appliable
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



## ABS PVC 003.000% M38539 ULTRA BLUE

Page 7

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

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	<ul> <li>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.</li> </ul>		
Incompatible materials	: none no data available Strong oxidizing agents		
Hazardous decomposition products	<ul> <li>Stable under recommended storage conditions.</li> <li>No hazardous decomposition products if stored and handled as prescribed</li> </ul>		

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure None known.		
Acute toxicity		
Product:		
Acute inhalation toxicity	:	Acute toxicity estimate: 33.87 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: 2,971 mg/kg Method: Calculation method
Components:		
C.I. Pigment Black 7:		
Acute oral toxicity	:	LD50 (Rat, male and female): > 10,000 mg/kg Method: OECD Test Guideline 401 GLP: no Remarks: No significant adverse effects were reported

## ABS PVC 003.000% M38539 ULTRA BLUE

**ÄVIENT** 

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022
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
Aluminium oxide:	
	LD50 (Rat, male and female): > 10,000 mg/kg Method: OECD Test Guideline 401 GLP: No information available.
Acute inhalation toxicity :	LC50 (Rat, male and female): > 2.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity :	Remarks: Not applicable
5,12-dihydro-2,9-dimethylquin	o[2,3-b]acridine-7,14-dione:
Acute oral toxicity :	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes Assessment: The substance or mixture has no acute oral toxicity Remarks: No significant adverse effects were reported
Acute inhalation toxicity :	LC0 (Rat, male and female): 3.055 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity :	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal toxicity Remarks: By analogy with a product of similar composition
N,N'-Ethylenedi(stearamide):	
Acute oral toxicity :	LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401

## ABS PVC 003.000% M38539 ULTRA BLUE

Page 9

**ÄVIENT** 

ostance key: 000000650007		Revision Date: 09/22/20
sion : 1 - 2 / CDN		Date of printing :01/18/20
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 Blue 15:3:		
Acute oral toxicity	:	LD50 (Rat, male and female): > 6,400 mg/kg Method: OECD Test Guideline 401 GLP: no Remarks: No significant adverse effects were reported
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
C.I. Pigment White 6:		
Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425 GLP: no
Acute inhalation toxicity	:	LC50 (Rat, male and female): 3.4 - 5.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: no Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	Assessment: The substance or mixture has no acute derma toxicity Remarks: not required
Skin corrosion/irritation		

Result: No skin irritation

## Components:

**C.I. Pigment Black 7:** Species: Rabbit Exposure time: 4 - 24 h

## ABS PVC 003.000% M38539 ULTRA BLUE

Page 10

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

Method: OECD Test Guideline 404 Result: No skin irritation GLP: no

### Aluminium oxide:

Species: Rabbit Exposure time: 24 h Method: OECD Test Guideline 404 Result: No skin irritation GLP: No information available.

#### 5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:

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

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

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

### C.I. Pigment Blue 15:3:

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

#### C.I. Pigment White 6:

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

### Serious eye damage/eye irritation

Product:

Result: No eye irritation

#### Components:

## C.I. Pigment Black 7:

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

## ABS PVC 003.000% M38539 ULTRA BLUE



Page 11

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

#### Aluminium oxide:

Result: Mild eye irritation

### 5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:

Species: Rabbit Result: No eye irritation Exposure time: 72 h Method: OECD Test Guideline 405 GLP: yes

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

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

### C.I. Pigment Blue 15:3:

Species: Rabbit Result: No eye irritation Exposure time: 24 h Method: OECD Test Guideline 405 GLP: no

### C.I. Pigment White 6:

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

### Respiratory or skin sensitisation

#### Product:

Result: non-sensitizing

#### Components:

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

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

#### Aluminium oxide:

Test Type: Draize Test Exposure routes: Dermal Species: Guinea pig Method: Draize Test Result: Not a skin sensitizer.



## ABS PVC 003.000% M38539 ULTRA BLUE

Page 12

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

GLP: no

Test Type: Respiratory system Exposure routes: inhalation (dust/mist/fume) Species: Mouse Method: Other Result: Not a skin sensitizer. GLP: no

### 5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:

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

Test Type: Local lymph node assay (LLNA) Exposure routes: Dermal Species: Mouse Method: OECD Test Guideline 429 Result: Not a skin sensitizer. GLP: yes

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

Species: Mouse Method: OECD Test Guideline 429 Result: Not a skin sensitizer.

#### C.I. Pigment Blue 15:3:

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

## C.I. Pigment White 6:

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

## ABS PVC 003.000% M38539 ULTRA BLUE



Page 13

Substance key: 000000650007 Rev	/ision Date: 09/22/2020
Version : 1 - 2 / CDN Date	of printing :01/18/2022

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

C.I. Pigment Black 7:	
Genotoxicity in vitro	<ul> <li>Test Type: Ames test</li> <li>Test system: Salmonella typhimurium</li> <li>Metabolic activation: with and without metabolic activation</li> <li>Method: OECD Test Guideline 471</li> <li>Result: negative</li> <li>GLP: yes</li> </ul>
	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 -	Weight of evidence does not support classification as a germ cell mutagen.
Aluminium oxide:	
Genotoxicity in vitro :	<ul> <li>Test Type: In vitro gene mutation study in mammalian cells Test system: mouse lymphoma cells Concentration: 6,1 - 780 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes Remarks: By analogy with a product of similar composition</li> </ul>

## ABS PVC 003.000% M38539 ULTRA BLUE



Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022
Genotoxicity in vivo :	Test Type: Chromosome Aberration Test Species: Rat (female) Strain: wistar Cell type: Bone marrow Application Route: oral (gavage) Exposure time: Single exposure Dose: 500 - 1000 - 2000 mg/kg Method: OECD Test Guideline 475 Result: positive GLP: No information available. Test Type: Micronucleus test Species: Bat (female)
	Species: Rat (female) Strain: wistar Cell type: Bone marrow
	Application Route: oral (gavage)
	Exposure time: Single exposure
	Dose: 500 - 1000 - 2000 mg/kg
	Method: OECD Test Guideline 474
	Result: positive GLP: No information available.
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.
5,12-dihydro-2,9-dimethylquin	
Genotoxicity in vitro :	Test Type: Ames test Test system: Salmonella typhimurium Concentration: 3 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
	Test Type: Ames test Test system: Escherichia coli Concentration: 3 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
	Test Type: In vitro gene mutation study in mammalian cells Test system: Chinese hamster lung cells Concentration: 2 - 20 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative GLP: yes
	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells

## ABS PVC 003.000% M38539 ULTRA BLUE



**ÄVIENT** 

	Date of printing :01/18/2022
	Concentration: 0,31 - 200 µg/ml Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes Remarks: By analogy with a product of similar composition
:	Test Type: Micronucleus test Species: Mouse (male and female) Strain: NMRI Cell type: Bone marrow cells Application Route: oral (gavage) Exposure time: single administration Dose: 2500 mg/kg Method: OECD Test Guideline 474 Result: negative GLP: yes
:	In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects
e):	
:	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
:	In vitro tests did not show mutagenic effects
:	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
	e): :

## ABS PVC 003.000% M38539 ULTRA BLUE



stance key: 000000650007	Revision Date: 09/22/20
sion : 1 - 2 / CDN	Date of printing :01/18/20
	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	<ul> <li>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 Result: negative GLP: No information available.</li> </ul>
	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
	In vivo tests did not show mutagenic effects, In vitro tests dic not show mutagenic effects
C.I. Pigment White 6:	
Genotoxicity in vitro	<ul> <li>Test Type: Ames test Test system: Salmonella typhimurium Concentration: 333 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes</li> </ul>

## ABS PVC 003.000% M38539 ULTRA BLUE



Page 17

ubstance key: 000000650007	Revision Date: 09/22/2020	
ersion : 1 - 2 / CDN	Date of printing :01/18/2022	
	Test Type: Ames test Test system: Escherichia coli Concentration: 333 - 5000 µg/plate Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes	
Genotoxicity in vivo :	: Test Type: Micronucleus test Species: Mouse (male and female) Strain: ICR Cell type: Erythrocytes 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 -	: In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects	
Carcinogenicity		
Components:		
C.I. Pigment Black 7:		
the Globally Harmonized Syster	not be classified for carcinogenicity according to the criteria of m of Classification and Labelling of Chemicals. Human health arbon black does not increase the risk of carcinogenicity. Studies	

the Globally Harmonized System of Classification and Labelling of Chemicals. Human health studies show that exposure to carbon black does not increase the risk of carcinogenicity. Studies in laboratory animals show that lung tumors are induced in rats as a result of repeated exposure to inert, poorly soluble particles like carbon black and other poorly soluble particles. Rat tumors are a result of a secondary non-genotoxic mechanism associated with the phenomenon of lung overload. This is a species-specific mechanism that has questionable relevance for classification in humans. Thus a carcinogenicity classification for Carbon Black is not warranted.

Carcinogenicity - Assessment	:	Not classifiable as a human carcinogen.
Aluminium oxide:		
Carcinogenicity - Assessment	:	Carcinogenicity classification not possible from current data.
5,12-dihydro-2,9-dimethylqu	ino	[2,3-b]acridine-7,14-dione:
Carcinogenicity - Assessment	:	No information available.

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

Carcinogenicity -	:	No information available.
Assessment		

## ABS PVC 003.000% M38539 ULTRA BLUE



ubstance key: 000000650007	Revision Date: 09/22/2020
ersion : 1 - 2 / CDN	Date of printing :01/18/2022
C   Diamont Plus 15:2:	
<b>C.I. Pigment Blue 15:3:</b> Carcinogenicity - Assessment	: No information available.
	No information available.
C.I. Pigment White 6:	
Carcinogenicity - Assessment	: Not classifiable as a human carcinogen.
Reproductive toxicity	
<u>Components:</u>	
C.I. Pigment Black 7:	
Effects on foetal development	<ul> <li>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</li> </ul>
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
Aluminium oxide:	
Effects on fertility	<ul> <li>Species: Rat, male and female Strain: Sprague-Dawley Application Route: Drinking water Dose: 57 - 189 - 567 mg/kg General Toxicity - Parent: NOAEL: ca. 567 mg/kg body weight General Toxicity F1: NOAEL: ca. 57 mg/kg body weight Method: Other GLP: yes Remarks: By analogy with a product of similar composition</li> </ul>
Effects on foetal development	<ul> <li>Species: Rat Strain: wistar</li> <li>Application Route: oral (gavage)</li> <li>Dose: 126 - 251 - 503 mg/kg</li> <li>Frequency of Treatment: 2 daily</li> <li>General Toxicity Maternal: NOAEL: &gt; 100 mg/kg body weight</li> <li>Teratogenicity: NOAEL: 503 mg/kg body weight</li> <li>Method: OECD Test Guideline 414</li> <li>GLP: No information available.</li> <li>Remarks: By analogy with a product of similar composition</li> </ul>

## ABS PVC 003.000% M38539 ULTRA BLUE



stance key: 00000065000	
sion : 1 - 2 / CDN	Date of printing :01/18/202
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments. No teratogenic effects to be expected.
5,12-dihydro-2,9-dimethyl	quino[2,3-b]acridine-7,14-dione:
Reproductive toxicity - Assessment	: No information available.
N,N'-Ethylenedi(stearamid	le):
Effects on foetal development	<ul> <li>Test Type: Pre-natal Species: Rat Strain: Sprague-Dawley Application Route: oral (gavage) General Toxicity Maternal: NOAEL: &gt;= 1,000 mg/kg body weight Method: OECD Test Guideline 414</li> </ul>
Reproductive toxicity - Assessment	: No evidence of adverse effects on sexual function and fertility or on development, based on animal experiments.
C.I. Pigment Blue 15:3:	
Effects on fertility	<ul> <li>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: &gt; 46 d General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight General Toxicity F1: NOAEL: 1,000 mg/kg body weight Method: OECD Test Guideline 421 GLP: yes</li> </ul>
Effects on foetal development	<ul> <li>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: &gt; 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</li> </ul>
Reproductive toxicity - Assessment	: No reproductive toxicity to be expected.
	No reproductive toxicity to be expected.
C.I. Pigment White 6:	
Effects on fertility	: Remarks: no data available

## ABS PVC 003.000% M38539 ULTRA BLUE



Page 20

Substance key: 000000650007 Version : 1 - 2 / CDN	Revision Date: 09/22/2020 Date of printing :01/18/2022
Effects on foetal : development	Test Type: Pre-natal Species: Rat, female Strain: wistar Application Route: oral (gavage) Dose: 100, 300, 1000 mg/kg bw Duration of Single Treatment: 14 d Frequency of Treatment: 1 daily General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight Developmental Toxicity: NOAEL: 1,000 mg/kg body weight Embryo-foetal toxicity: NOEL: 1,000 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes Remarks: No significant adverse effects were reported
Reproductive toxicity - : Assessment	No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments. Did not show teratogenic effects in animal experiments.

### STOT - single exposure

#### **Components:**

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

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

### Aluminium oxide:

Target Organs: Lungs Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

#### 5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:

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

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

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

## C.I. Pigment Blue 15:3:

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.



## ABS PVC 003.000% M38539 ULTRA BLUE

Page 21

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

### STOT - repeated exposure

#### **Components:**

### C.I. Pigment Black 7:

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

### Aluminium oxide:

Target Organs: Lungs Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### 5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:

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

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

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

### C.I. Pigment Blue 15:3:

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

### C.I. Pigment White 6:

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

#### Repeated dose toxicity

#### **Components:**

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

Species: Rat, female NOAEL: 52 mg/kg bw/day Application Route: oral (feed) Exposure time: 1 a - 2 a Number of exposures: daily Dose: 2,05 g/kg of chow diet Group: yes Method: Other 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

Version: 1 - 2 / CDN





Page 22

# Substance key: 000000650007

Revision Date: 09/22/2020 Date of printing:01/18/2022

Number of exposures: 6 h per day; 5 d per week Dose: 1,1 - 7,1 - 52,8 mg/m3 Group: yes Method: Other GLP: No information available.

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

### Aluminium oxide:

Species: Rat, male and female NOAEL: 57 mg/kg Application Route: Drinking water Exposure time: 1 a Number of exposures: continuously Dose: 57 - 189 - 567 mg/kg Group: yes Method: OECD Test Guideline 426 GLP: yes Remarks: By analogy with a product of similar composition

Species: Rat LOAEL: 0.070 mg/l Application Route: Inhalation Exposure time: 6 m Number of exposures: 6 hr/day; 5 days a week Dose: 15-30-50-70-100 mg Al/m3 Method: OECD Test Guideline 413 GLP: No information available.

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

### 5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:

Species: Rat, male and female NOAEL: 1000 mg/kg bw/day Application Route: oral (gavage) Exposure time: 91 d Number of exposures: Once a day Dose: 0, 50, 200, 1000 mg/kg Group: yes Method: OECD Test Guideline 408 GLP: yes

## ABS PVC 003.000% M38539 ULTRA BLUE

Page 23

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

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

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

### C.I. Pigment Blue 15:3:

Species: Rat, male and female NOAEL: ca. 4500 mg/kg bw/day Application Route: oral (feed) 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

#### C.I. Pigment White 6:

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

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

#### Aspiration toxicity

#### Components:

**C.I. Pigment Black 7:** No aspiration toxicity classification

### Aluminium oxide:

No aspiration toxicity classification

### 5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:

No aspiration toxicity classification



## ABS PVC 003.000% M38539 ULTRA BLUE



Page 24

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

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

no data available

## C.I. Pigment Blue 15:3:

No aspiration toxicity classification

## C.I. Pigment White 6:

No aspiration toxicity classification

### Experience with human exposure

:

### Product:

General Information

The possible symptoms known are those derived from the labelling (see section 2).

### **Further information**

### **Components:**

### C.I. Pigment Blue 15:3:

Test Type: adsorption Remarks: Not applicable

### C.I. Pigment White 6:

Remarks: Lung damage possible.

## **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity <u>Product:</u> Toxicity to fish	: Remarks: no data available
Components:	
C.I. Pigment Black 7:	
	<ul> <li>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.</li> </ul>
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 5,600 mg/l End point: Immobilization Exposure time: 24 h

## ABS PVC 003.000% M38539 ULTRA BLUE



Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022
	Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic : plants	EC50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic : toxicity)	Remarks: not required
Toxicity to daphnia and other : aquatic invertebrates (Chronic toxicity)	Remarks: not required
Toxicity to microorganisms :	EC0 (activated sludge): > 400 mg/l End point: Bacteria toxicity (growth inhibition) Exposure time: 3 h Test Type: static test Method: DIN 38412 GLP: no
Toxicity to soil dwelling : organisms	Test Type: Other Method: Other GLP: No information available. Remarks: This product does not have any known adverse effect on the soil organisms tested.
Aluminium oxide:	
Toxicity to fish :	NOEC (Salmo trutta (brown trout)): > 0.072 mg/l Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other : aquatic invertebrates	NOEC (Daphnia magna (Water flea)): > 0.071 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes

## ABS PVC 003.000% M38539 ULTRA BLUE

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Substance key: 000000650007		Revision Date: 09/22/2020
Version : 1 - 2 / CDN		Date of printing :01/18/2022
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): >= 0.052 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
		EC50 (Pseudokirchneriella subcapitata (green algae)): 1.05 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to fish (Chronic toxicity)	:	NOEC (Pimephales promelas (fathead minnow)): 56.48 mg/l Exposure time: 7 d Test Type: semi-static test Analytical monitoring: yes Method: Other GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.076 mg/l End point: Reproduction rate Exposure time: 21 d Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to microorganisms	:	Remarks: Not applicable
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		
Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.

## ABS PVC 003.000% M38539 ULTRA BLUE

Page 27

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Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022
5,12-dihydro-2,9-dimethylquind	o[2,3-b]acridine-7,14-dione:
Toxicity to fish :	LC50 (Danio rerio (zebra fish)): > 100 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: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
	NOEC (Danio rerio (zebra fish)): 100 mg/l End point: mortality Exposure time: 96 h Test Type: semi-static test Analytical monitoring: no Method: OECD Test Guideline 203 GLP: yes Remarks: By analogy with a product of similar composition The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 100 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
	NOEC (Daphnia magna (Water flea)): 100 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 202 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae/aquatic : plants	ErC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: No toxicity at the limit of solubility The details of the toxic effect relate to the nominal concentration.

## ABS PVC 003.000% M38539 ULTRA BLUE

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022
	NOEC (Desmodesmus subspicatus (green algae)): 10 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes Remarks: No toxicity at the limit of solubility The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic : toxicity)	NOEC (Danio rerio (zebra fish)): >= 10 mg/l End point: Other Exposure time: 28 d Test Type: semi-static test Analytical monitoring: no Method: OECD Test Guideline 215 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
	LOEC (Danio rerio (zebra fish)): > 10 mg/l End point: Other Exposure time: 28 d Test Type: semi-static test Analytical monitoring: no Method: OECD Test Guideline 215 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other : aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): > 0.02 mg/l End point: Reproduction rate Exposure time: 21 d Test Type: semi-static test Analytical monitoring: no Method: OECD Test Guideline 211 GLP: yes Remarks: No toxicity at the limit of solubility
Toxicity to microorganisms :	NOEC (activated sludge): > 1,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: aquatic Analytical monitoring: no Method: OECD Test Guideline 209 GLP: yes
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

## ABS PVC 003.000% M38539 ULTRA BLUE



ubstance key: 000000650007		Revision Date: 09/22/2020
ersion : 1 - 2 / CDN		Date of printing :01/18/2022
		Remarks: By analogy with a product of similar composition
		Test Type: artificial soil NOEC (Eisenia fetida (earthworms)): 1,000 mg/kg Exposure time: 14 d End point: mortality
		Method: OECD Test Guideline 207 GLP: yes Remarks: By analogy with a product of similar composition
Sediment toxicity	:	NOEC (Lumbriculus variegatus (Worm)): 993 mg/kg dry weight (d.w.)
		Analytical monitoring: no Solvent: yes Duration: 28 d Sediment: Artificial sediment
		Basis for effect: mortality Method: OECD 225 GLP: yes
N,N'-Ethylenedi(stearamide)	:	
Toxicity to fish	:	LC50 (Oryzias latipes (Orange-red killifish)): 0.027 mg/l End point: mortality Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0022 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (algae)): 0.053 mg/l Exposure time: 72 h 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

## ABS PVC 003.000% M38539 ULTRA BLUE



ubstance key: 000000650007	Revision Date: 09/22/2020
/ersion : 1 - 2 / CDN	Date of printing :01/18/2022
	Method: OECD Test Guideline 222
Sediment toxicity	<ul> <li>NOEC: &gt;= 1000 mg/kg dry weight (d.w.) Test Type: static test Sediment: Artificial sediment Exposure duration: 28 d Method: OECD Test Guideline 218</li> </ul>
C.I. Pigment Blue 15:3:	
Toxicity to fish	<ul> <li>LC50 (Danio rerio (zebra fish)): &gt; 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.</li> </ul>
Toxicity to algae/aquatic plants	<ul> <li>ErC50 (Desmodesmus subspicatus (green algae)): &gt; 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.</li> </ul>
Toxicity to fish (Chronic toxicity)	: Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<ul> <li>NOEC (Daphnia magna (Water flea)): &gt; 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.</li> </ul>
Toxicity to microorganisms	<ul> <li>EC50 (activated sludge): &gt; 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.</li> </ul>

## ABS PVC 003.000% M38539 ULTRA BLUE



Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022
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 Exposure duration: 28 d Basis for effect: mortality Method: OECD 225 GLP: yes
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 :	LC50 (Daphnia magna (Water flea)): > 100 mg/l

## ABS PVC 003.000% M38539 ULTRA BLUE



Dian 1 2/CDN	Revision Date: 09/22/2
sion : 1 - 2 / CDN	Date of printing :01/18/2
aquatic invertebrates	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 nomin 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 nomin concentration.
Toxicity to algae/aquatic plants	<ul> <li>EC50 (Pseudokirchneriella subcapitata (microalgae)): 61 m End point: Growth rate</li> <li>Exposure time: 72 h Test Type: static test</li> <li>Analytical monitoring: no</li> <li>Method: EPA</li> <li>GLP: No information available.</li> <li>Remarks: The details of the toxic effect relate to the nomin concentration.</li> </ul>
	EC50 (Skeletonema costatum (marine diatom)): > 10,000 r 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 nomin concentration.
Toxicity to fish (Chronic toxicity)	<ul> <li>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</li> </ul>
Toxicity to microorganisms	<ul> <li>EC50 (activated sludge of a predominantly domestic sewag &gt; 1,000 mg/l</li> <li>End point: Bacteria toxicity (respiration inhibition)</li> <li>Exposure time: 3 h</li> <li>Test Type: aquatic</li> <li>Method: OECD Test Guideline 209</li> <li>GLP: yes</li> <li>Remarks: The details of the toxic effect relate to the nomin concentration.</li> </ul>

## ABS PVC 003.000% M38539 ULTRA BLUE

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022
	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.
Toxicity to soil dwelling : organisms	Test Type: artificial soil 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: >= 10 % Exposure time: 20 h End point: Growth Species: Lactuca sativa (lettuce) Analytical monitoring: yes Method: Other GLP: no Remarks: By analogy with a product of similar composition No effect on the growth was observed.
Sediment toxicity :	NOEC (Hyalella azteca (Scud)): >= 100000 % Analytical monitoring: no Sediment: artificial soil Exposure duration: 28 d Nominal / Measured: nominal Basis for effect: mortality Method: Other GLP: no Remarks: By analogy with a product of similar composition NOEC: >= 14989 mg/kg dry weight (d.w.) Analytical monitoring: no data available
Ecotoxicology Assessment	Sediment: Natural sediment Exposure duration: 10 d Nominal / Measured: nominal Basis for effect: mortality Method: Other GLP: yes
Chronic aquatic toxicity :	This product has no known ecotoxicological effects.







ubstance key: 000000650007	Revision Date: 09/22/2020
ersion : 1 - 2 / CDN	Date of printing :01/18/2022
Persistence and degradability	/
Components:	
C.I. Pigment Black 7:	
Biodegradability	: Remarks: Not applicable
Aluminium oxide:	
Biodegradability	: Remarks: Not applicable
5,12-dihydro-2,9-dimethylqui	no[2,3-b]acridine-7,14-dione:
Biodegradability	: aerobic Inoculum: activated sludge Concentration: 40 mg/l Biochemical Oxygen Demand (BOD) Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes
Physico-chemical removability	: Remarks: Not readily biodegradable.
N,N'-Ethylenedi(stearamide):	
Biodegradability	<ul> <li>aerobic Inoculum: activated sludge Carbon dioxide (CO2) Result: Not readily biodegradable. Biodegradation: 5.5 % Exposure time: 28 d Method: OECD Test Guideline 301B</li> </ul>
C.I. Pigment Blue 15:3:	
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/cm3



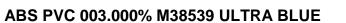


Rate constant: 8.525E-11 cm3/s Method: other (calculated) GLP: no         C.I. Pigment White 6: Biodegradability       :         Bioaccumulative potential         Product: Bioaccumulation       :         Bioaccumulation       :         Remarks: not tested.         Components: C.I. Pigment Black 7: Bioaccumulation       :         Remarks: Not applicable         Aluminium oxide: Bioaccumulation       :         Bioaccumulation       :         Remarks: Not applicable         5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione: Bioaccumulation         Bioaccumulation       :         Remarks: Low potential for bioaccumulation (log Pow < 3)         Partition coefficient: n- octanol/water       :         Method: Other GLP: no data available	Ibstance key: 00000065000	)/	Revision Date: 09/22/20
Method: other (calculated) GLP: no         C.1. Pigment White 6: Bioaccumulative potential <b>Broduct:</b> Bioaccumulation       : Remarks: Not applicable for inorganic compound.         Bioaccumulation       : Remarks: not tested. <b>Components:</b> C.1. Pigment Black 7: Bioaccumulation       : Remarks: Not applicable         Aluminium oxide: Bioaccumulation       : Remarks: Not applicable <b>Aluminium oxide:</b> Bioaccumulation       : Remarks: Not applicable <b>5.12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:</b> Bioaccumulation       : Remarks: Low potential for bioaccumulation (log Pow < 3)         Partition coefficient: n- octanol/water       : log Pow: 2.2 (24 °C) pH: 7 Method: Other GLP: no data available Remarks: Calculated on the basis of measured solubilities water at pH 7 and in n-octanol. <b>N,N-Ethylenedi(stearamide):</b> Bioaccumulation       : Remarks: Bioaccumulation is unlikely.         Partition coefficient: n- octanol/water       : Remarks: Not applicable <b>C1. Pigment Blue 15:3:</b> Bioaccumulation       : Remarks: Bioaccumulation is unlikely. <b>C1. Pigment White 6:</b> 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.	ersion: 1 - 2 / CDN		Date of printing :01/18/20
Biodegradability       :       Remarks: Not applicable for inorganic compound.         Bioaccumulative potential       Product:         Bioaccumulation       :       Remarks: not tested.         Components:       C.1. Pigment Black 7:         Bioaccumulation       :       Remarks: Not applicable         Aluminium oxide:       Bioaccumulation       :         Bioaccumulation       :       Remarks: Not applicable         5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:       Bioaccumulation (log Pow < 3)			Method: other (calculated)
Bioaccumulative potential         Product:         Bioaccumulation       : Remarks: not tested.         Components:         C.1. Pigment Black 7:         Bioaccumulation       : Remarks: Not applicable         Aluminium oxide:         Bioaccumulation       : Remarks: Not applicable         5.12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:         Bioaccumulation       : Remarks: Low potential for bioaccumulation (log Pow < 3)	C.I. Pigment White 6:		
Product:       Bioaccumulation       :       Remarks: not tested.         Bioaccumulation       :       Remarks: Not applicable         Aluminium oxide:       Bioaccumulation       :       Remarks: Not applicable         Bioaccumulation       :       Remarks: Not applicable         5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:       Bioaccumulation       :         Bioaccumulation       :       Remarks: Low potential for bioaccumulation (log Pow < 3)	Biodegradability	:	Remarks: Not applicable for inorganic compound.
Bioaccumulation       :       Remarks: not tested.         Components:       C.1. Pigment Black 7:         Bioaccumulation       :       Remarks: Not applicable         Aluminium oxide:       Bioaccumulation       :         Bioaccumulation       :       Remarks: Not applicable         Aluminium oxide:       Bioaccumulation       :         Bioaccumulation       :       Remarks: Not applicable         5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:       Bioaccumulation (log Pow < 3)	Bioaccumulative potential		
Components:         C.1. Pigment Black 7:         Bioaccumulation       :         Remarks: Not applicable         Aluminium oxide:         Bioaccumulation       :         Remarks: Not applicable         5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:         Bioaccumulation       :         Remarks: Low potential for bioaccumulation (log Pow < 3)	Product:		
C.I. Pigment Black 7:         Bioaccumulation       :         Remarks: Not applicable         Aluminium oxide:         Bioaccumulation       :         Remarks: Not applicable         5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:         Bioaccumulation       :         Remarks: Low potential for bioaccumulation (log Pow < 3)	Bioaccumulation	:	Remarks: not tested.
Bioaccumulation       : Remarks: Not applicable         Aluminium oxide:       Bioaccumulation       : Remarks: Not applicable         Bioaccumulation       : Remarks: Not applicable         5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:         Bioaccumulation       : Remarks: Low potential for bioaccumulation (log Pow < 3)	Components:		
Aluminium oxide:         Bioaccumulation       : Remarks: Not applicable         5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:         Bioaccumulation       : Remarks: Low potential for bioaccumulation (log Pow < 3)	C.I. Pigment Black 7:		
Bioaccumulation       : Remarks: Not applicable         5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:         Bioaccumulation       : Remarks: Low potential for bioaccumulation (log Pow < 3)	Bioaccumulation	:	Remarks: Not applicable
5,12-dihydro-2,9-dimethylquino[2,3-b]acridine-7,14-dione:         Bioaccumulation       : Remarks: Low potential for bioaccumulation (log Pow < 3)	Aluminium oxide:		
Bioaccumulation       :       Remarks: Low potential for bioaccumulation (log Pow < 3)	Bioaccumulation	:	Remarks: Not applicable
Partition coefficient: n- octanol/water       :       log Pow: 2.2 (24 °C) pH: 7 Method: Other GLP: no data available Remarks: Calculated on the basis of measured solubilities water at pH 7 and in n-octanol.         N,N'-Ethylenedi(stearamide):       Bioaccumulation       :       Remarks: Bioaccumulation is unlikely.         Partition coefficient: n- octanol/water       :       Remarks: Not applicable         C.I. Pigment Blue 15:3:       Bioaccumulation       :         Bioaccumulation       :       Remarks: Bioaccumulation is unlikely.         C.I. Pigment White 6:       Bioaccumulation       :         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.	5,12-dihydro-2,9-dimethyld	quinc	p[2,3-b]acridine-7,14-dione:
octanol/water       pH: 7 Method: Other GLP: no data available Remarks: Calculated on the basis of measured solubilities water at pH 7 and in n-octanol.         N,N'-Ethylenedi(stearamide):       Bioaccumulation         Bioaccumulation       :         Partition coefficient: n- octanol/water       :         Remarks: Not applicable       :         C.I. Pigment Blue 15:3:       Bioaccumulation         Bioaccumulation       :         Remarks: Bioaccumulation is unlikely.         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.	Bioaccumulation	:	Remarks: Low potential for bioaccumulation (log Pow < 3).
Bioaccumulation       : Remarks: Bioaccumulation is unlikely.         Partition coefficient: n-octanol/water       : Remarks: Not applicable         C.I. Pigment Blue 15:3:       : Remarks: Bioaccumulation is unlikely.         Bioaccumulation       : Remarks: Bioaccumulation is unlikely.         C.I. Pigment White 6:       : 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.		:	pH: 7 Method: Other GLP: no data available Remarks: Calculated on the basis of measured solubilities in
Partition coefficient: n-octanol/water       : Remarks: Not applicable         C.I. Pigment Blue 15:3:       :         Bioaccumulation       : Remarks: Bioaccumulation is unlikely.         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.	N,N'-Ethylenedi(stearamid	e):	
octanol/water         C.I. Pigment Blue 15:3:         Bioaccumulation       : Remarks: Bioaccumulation is unlikely.         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.	Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
Bioaccumulation       : Remarks: Bioaccumulation is unlikely.         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: Not applicable
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.	C.I. Pigment Blue 15:3:		
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.	Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.
Bioconcentration factor (BCF): 20 - 200 Exposure time: 14 d Concentration: 0.1 - 1 mg/l Method: Other GLP: No information available.	C.I. Pigment White 6:		
	Bioaccumulation	:	Bioconcentration factor (BCF): 20 - 200 Exposure time: 14 d Concentration: 0.1 - 1 mg/l Method: Other GLP: No information available.
Partition coefficient: n- : Remarks: inorganic	Partition coefficient: n-	:	Remarks: inorganic

## ABS PVC 003.000% M38539 ULTRA BLUE



stance key: 000000650007	Revision Date: 09/22/20
sion : 1 - 2 / CDN	Date of printing :01/18/20
octanol/water	
Mobility in soil	
Product:	
Distribution among environmental compartments	: Remarks: not tested.
Components:	
C.I. Pigment Black 7:	
Distribution among environmental compartments	: Adsorption/Soil Medium: water - soil Remarks: Not applicable
Aluminium oxide:	
Distribution among environmental compartments	: Remarks: Not applicable
5,12-dihydro-2,9-dimethylqu	ino[2,3-b]acridine-7,14-dione:
Distribution among environmental compartments	<ul> <li>adsorption</li> <li>Medium: Soil</li> <li>Remarks: Not expected to adsorb on soil.</li> </ul>
N,N'-Ethylenedi(stearamide)	
Distribution among environmental compartments	: log Koc: 8.6 - 8.91 Method: calculated
C.I. Pigment Blue 15:3:	
Distribution among	: adsorption
environmental compartments	Medium: Soil Remarks: Not expected to adsorb on soil.
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	: Do not allow to enter ground water, waterways or waste wat





Page 37

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

## Components:

<b>C.I. Pigment Black 7:</b> 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.	
Aluminium oxide: Environmental fate and pathways	:	not available	
Results of PBT and vPvB assessment	:	Remarks: Not applicable	
Additional ecological information	:	Do not allow to enter ground water, waterways or waste water.	
<b>5,12-dihydro-2,9-dimethylqu</b> Environmental fate and	uinc :	<b>p[2,3-b]acridine-7,14-dione:</b> not available	
pathways 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.	
N,N'-Ethylenedi(stearamide	۱.		
Results of PBT and vPvB assessment	<b>).</b> :	The substance is not identified as a PBT or as a vPvB substance.	
<b>C.I. Pigment Blue 15:3:</b> 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.	
<b>C.I. Pigment White 6:</b> Environmental fate and pathways	:	not available	



## ABS PVC 003.000% M38539 ULTRA BLUE

Page 38

Substance key: 000000650007		Revision Date: 09/22/2020
Version : 1 - 2 / CDN		Date of printing :01/18/2022
Results of PBT and vPvB assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
Additional ecological information	:	Do not allow to enter ground water, waterways or waste water.

### 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
ΙΑΤΑ	not restricted
IMDG	not restricted

### **SECTION 15. REGULATORY INFORMATION**

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

ACGIH CA AB OEL		USA. ACGIH Threshold Limit Values (TLV) Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and 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
CA AB OEL / TWA	:	8-hour Occupational exposure limit



## ABS PVC 003.000% M38539 ULTRA BLUE

Page 39

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average 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; AIIC - Australian Inventory of Industrial Chemicals; 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 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	:	09/22/2020
Date format	:	mm/dd/yyyy

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Page 40

Substance key: 000000650007	Revision Date: 09/22/2020
Version : 1 - 2 / CDN	Date of printing :01/18/2022

CA / EN