

### **RENOL-BLUE AGAVE-ZN**

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Version: 1 - 0 / CDN	Date of printing :07/18/2018

#### **SECTION 1. IDENTIFICATION**

**Identification of the** Clariant Plastics & Coatings Canada Inc.

company: 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: RENOL-BLUE AGAVE-ZN

Material number: PV53800002

Chemical family: Colourant preparation

Carrier: EVA

**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: EVA

### **Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
C.I. Pigment Black 7	1333-86-4	1 - 2.5
C.I. Pigment Blue 15:3	147-14-8	3 - 5
C.I. Pigment White 6	13463-67-7	25 - 40

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



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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:

Acetic acid
Carbon monoxide



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Carbon dioxide (CO2)

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.

Sulphur oxides Metal oxides Carbon oxides

Further information : Combustible material

In the event of fire and/or explosion do not breathe fumes. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

Do not allow run-off from fire fighting to enter drains or water

courses.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for firefighters

Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Refer to protective measures listed in sections 7 and 8.

Avoid contact with skin, eyes and clothing.

Wash thoroughly after handling.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Prevent product from entering drains.

Methods and materials for containment and cleaning up

Avoid dust formation.

Take measures to prevent the build up of electrostatic charge. Sweep up and shovel into suitable containers for disposal. Take up uncontaminated material and pass on for further

processing.

After cleaning, flush away traces with water.

### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against : fire and explosion

Take measures to prevent the build up of electrostatic charge.

Advice on safe handling

Handle in accordance with good industrial hygiene and safety

practice.

Use only with adequate ventilation/personal protection.

For personal protection see section 8. Avoid contact with skin, eyes and clothing.

Use only with adequate ventilation.

When handling hot melts use suitable protective clothing. Avoid dust formation. Keep away from sources of ignition.



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Lead off electrostatic charges.

Conditions for safe storage : Keep container tightly closed in a cool, well-ventilated place.

Protect from moisture.

Keep away from direct sunlight.

Technical : Store in a cool, dry, well-ventilated area. Keep container

measures/Precautions sealed when not in use.

Keep in an area equipped with sprinklers. Minimize dust generation and accumulation.

Materials to avoid : not required

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
C.I. Pigment 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 fraction)	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

**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



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at elevated temperatures (see section 8).

Hand protection

Remarks : Nitrile rubber gloves. Impervious butyl rubber gloves PVC

Neoprene gloves When handling hot material, use heat

resistant gloves.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear protective clothing, including long sleeves and gloves,

to prevent skin contact.

When handling hot melts use suitable protective clothing.

Hygiene measures : The usual Industrial Hygiene precautions must be taken

during work, in particular: do not drink, eat or smoke during the handling of the product and clean hands and face during

work intervals and after work.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Granules

Colour : blue

Odour : characteristic

Odour Threshold : Not applicable

pH : Not applicable

Melting point :  $> 50 \, ^{\circ}\text{C}$ 

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



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Relative density : not available

Density : approx. 1.34 g/cm3

Value determined from data on raw material.

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

This property is not applicable for mixtures.

Decomposition temperature : 220 °C

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.

Incompatible materials : none

Strong oxidizing agents Halogenated hydrocarbons



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Hazardous decomposition

products

No hazardous decomposition products if stored and handled

as prescribed

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

None known.

**Acute toxicity** 

**Product:** 

Acute inhalation toxicity : Acute toxicity estimate: 14.32 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Components:

C.I. Pigment Black 7:

Acute oral toxicity : LD50 (Rat, male and female): > 8,000 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity : LC0 (Rat): > 0.0046 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Other

GLP: No information available.

Acute dermal toxicity : Remarks: not required

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

Acute inhalation toxicity : Remarks: not reasonable

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



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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 dermal

toxicity

Remarks: not required

### Skin corrosion/irritation

### **Product:**

Result: No skin irritation

## **Components:**

### C.I. Pigment Black 7:

Species: Rabbit

Exposure time: 4 - 24 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: no

### C.I. Pigment 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



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# **Components:**

### C.I. Pigment Black 7:

Species: rabbit eye Result: No eye irritation

Method: OECD Test Guideline 405

GLP: no

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

Species: rabbit eye 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: non-sensitizing

GLP: ves

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

Test Type: Mouse local lymphnode assay

Exposure routes: Dermal

Species: Mouse

Method: OECD Test Guideline 429

Result: non-sensitizing

GLP: yes

Test Type: Guinea pig maximization test

Exposure routes: Dermal Species: Guinea pig

Method: OECD 406 \* 1981 Guinea pig maximisation test

Result: non-sensitizing

GLP: yes



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### C.I. Pigment White 6:

Test Type: Mouse local lymphnode assay

Exposure routes: Dermal

Species: Mouse

Method: OECD Test Guideline 429 Result: Not a skin sensitizer. GLP: No information available.

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 : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Test Type: Ames test

Test system: Escherichia coli

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Genotoxicity in vivo : Result: ambiguous

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

C.I. Pigment Blue 15:3:

Genotoxicity in vitro : 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



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GLP: No information available.

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Concentration: 750 - 3000 µg/ml

Metabolic activation: with and without metabolic activation

Method: Other Result: negative

GLP: No information available.

Genotoxicity in vivo : 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: OECD Test Guideline 484

Result: negative

GLP: No information available.

Germ cell mutagenicity -

Assessment

It is concluded that the product is not mutagenic based on

evaluation of several mutagenicity tests.

C.I. Pigment White 6:

Genotoxicity in vitro : 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

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 -

Assessment

In vitro tests did not show mutagenic effects, In vivo tests did

not show mutagenic effects



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Carcinogenicity

**Components:** 

C.I. Pigment Black 7:

Carcinogenicity -

: Not classifiable as a human carcinogen.

Assessment

C.I. Pigment Blue 15:3:

Remarks: From scientific point of view the study is not necessary.

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

C.I. Pigment White 6:

Carcinogenicity - Assessment

: Not classifiable as a human carcinogen.

Reproductive toxicity

Components:

C.I. Pigment Black 7:

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

perspective.

Effects on foetal development

Remarks: The study is not necessary from a scientific

perspective.

Reproductive toxicity -

Assessment

: No reproductive toxicity to be expected. No teratogenic effects to be expected.

C.I. Pigment Blue 15:3:

Effects on fertility : Test Type: One generation study

Species: Rat, male and female Application Route: oral (gavage) Dose: 40 - 200 - 1000 mg/kg

Duration of Single Treatment: 10 - 13 h

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

Effects on foetal development

Test Type: Fertility/early embryonic development

Species: Rat

Application Route: Oral Dose: 40 - 200 - 1000 mg/kg

Duration of Single Treatment: 39 - 46 d

General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight Developmental Toxicity: NOAEL: 1,000 mg/kg body weight



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Method: OECD Test Guideline 421

GLP: ves

Reproductive toxicity -

Assessment

No reproductive toxicity to be expected. No teratogenic effects to be expected.

C.I. Pigment White 6:

Effects on fertility Remarks: no data available

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.

#### 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.

### STOT - repeated exposure

### **Components:**

### C.I. Pigment Black 7:

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



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### 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

Application Route: oral (feed) Exposure time: 1 a - 2 a Number of exposures: daily Dose: 2,05 g/kg of chow diet

Group: yes

Method: Repeated Dose Toxicity (chronic Toxicity)

GLP: No information available. Remarks: The product is non-toxic.

Species: Rat, male NOAEL: 0.0011 mg/l LOAEL: 0.0071 mg/l

Application Route: Inhalation

Exposure time: 13 w

Number of exposures: 6 h per day; 5 d per week

Dose: 1,1 - 7,1 - 52,8 mg/m3

Group: yes

Method: OECD Test Guideline 413 GLP: No information available.

Species: Mouse, male and female Application Route: Skin contact

Exposure time: 12-18 m

Number of exposures: 3 times per week Dose: 20% carbon black suspensions

Group: yes

Method: Repeated Dose Toxicity (chronic Toxicity)

GLP: no

Remarks: The product is non-toxic.

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

Species: Rat, male and female

LOAEL: 1,000 mg/kg

Application Route: oral (gavage)

Exposure time: 28 d Number of exposures: daily

Dose: 1000 mg/kg



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Group: yes

Method: OECD Test Guideline 407

GLP: no

Species: Rat, male and female NOAEL: approx. 4,500 mg/kg Application Route: oral (feed)

Exposure time: 91 d Number of exposures: daily

Dose: 0,3 -0,6 - 1,25 - 2,5 - 5,0 %

Group: yes

Method: OECD Test Guideline 408

GLP: no

Species: Rat, male NOAEL: 0.0097 mg/l Application Route: Inhalation

Exposure time: 14 d

Number of exposures: 6 hours/day, 5 days/week

Dose: 9.7 - 30 - 96 mg/m3

Group: yes

Method: OECD Test Guideline 412

GLP: no

Remarks: By analogy with a product of similar composition

### 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



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#### 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**

**Product:** 

Toxicity to fish :

Remarks: no data available

#### **Components:**

### C.I. Pigment Black 7:

Toxicity to fish : LC0 (Brachydanio rerio (zebrafish)): 1,000 mg/l

Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: no

Method: OECD Test Guideline 203

GLP: yes

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

concentration.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 5,600 mg/l

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



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concentration.

NOEC (Daphnia magna (Water flea)): 3,200 mg/l

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 : EC50 (Desmodesmus subspicatus (green algae)): > 10,000

mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: yes

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

concentration.

NOEC (Desmodesmus subspicatus (green algae)): > 10,000

mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: yes

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

concentration.

Toxicity to fish (Chronic

toxicity)

Remarks: not reasonable

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

Remarks: not reasonable

Toxicity to microorganisms : EC0 (activated sludge, domestic): > 400 mg/l

Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: DEV L 3

GLP: no

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

concentration.

Sediment toxicity : Remarks: Not applicable

C.I. Pigment Blue 15:3:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l



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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.

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

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.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: Other GLP: no

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

concentration.

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: yes

Remarks: By analogy with a product of similar composition

The details of the toxic effect relate to the nominal

concentration.

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

End point: Biomass 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 : EC50 (Daphnia magna (Water flea)): > 1 mg/l



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aquatic invertebrates (Chronic toxicity)

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.

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: aquatic
Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

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

concentration.

Toxicity to soil dwelling

organisms

Test Type: artificial soil

LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

Exposure time: 14 d End point: mortality

Method: OECD Test Guideline 207

GLP: yes

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: The study is not necessary from a scientific

perspective.

Plant toxicity : Remarks: The study is not necessary from a scientific

perspective.

Sediment toxicity : NOEC (Lumbriculus variegatus (Worm)): 1000 mg/kg dry

weight (d.w.)

Analytical monitoring: no Sediment: artificial soil



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

GLP: yes

Toxicity to terrestrial

organisms

Remarks: The study is not necessary from a scientific

perspective.

C.I. Pigment White 6:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l

Exposure time: 96 h Test Type: static test Analytical monitoring: no

Method: EPA GLP: yes

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

concentration.

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 203 GLP: No information available.

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

concentration.

LC50 (Cyprinodon variegatus (sheepshead minnow)): >

10,000 mg/l

Exposure time: 96 h Test Type: semi-static test

Analytical monitoring: no data available Method: OECD Test Guideline 203

GLP: yes

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

concentration.

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Analytical monitoring: no data available Method: OECD Test Guideline 202

GLP: no data available

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

concentration.

LC50 (Acartia tonsa): > 10,000 mg/l

Exposure time: 48 h

Analytical monitoring: no data available Method: ISO 14669 and PARCOM method

GLP: yes

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

concentration.



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Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 61 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no

Method: EPA

GLP: No information available.

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

concentration.

EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l

End point: Growth rate Exposure time: 72 h

Analytical monitoring: no data available

Method: ISO 10253

GLP: yes

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

concentration.

Toxicity to fish (Chronic

toxicity)

LC50 (Oncorhynchus mykiss (rainbow trout)): 7.31 mg/l

Exposure time: 28 d Test Type: static test Analytical monitoring: yes

Method: Other

GLP: No information available.

Remarks: By analogy with a product of similar composition

Toxicity to microorganisms

EC50 (activated sludge of a predominantly domestic sewage):

> 1,000 mg/l

End point: Bacteria toxicity (respiration inhibition)

Exposure time: 3 h Test Type: aquatic

Method: OECD Test Guideline 209

GLP: yes

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

concentration.

NOEC (activated sludge of a predominantly domestic

sewage): >= 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



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GLP: no

Remarks: By analogy with a product of similar composition This product does not have any known adverse effect on the

soil organisms tested.

Plant toxicity : NOEC (Lactuca sativa (lettuce)): >= 10 %

Exposure time: 20 h End point: Growth

Analytical monitoring: yes

Method: Other GLP: no

Remarks: By analogy with a product of similar composition

No effect on the growth was observed.

Sediment toxicity : NOEC (Hyalella azteca (Scud)): >= 100000 %

Analytical monitoring: no Sediment: artificial soil Exposure duration: 28 d Nominal / Measured: nominal Basis for effect: mortality

Method: Other GLP: no

Remarks: By analogy with a product of similar composition

NOEC: >= 14989 mg/kg dry weight (d.w.) Analytical monitoring: no data available

Sediment: Natural sediment Exposure duration: 10 d Nominal / Measured: nominal Basis for effect: mortality

Method: Other GLP: yes

### Persistence and degradability

# **Components:**

### C.I. Pigment Black 7:

Biodegradability : Remarks: Not applicable

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

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 107 mg/l BOD in % of theoretical OD Result: Not readily biodegradable.

Biodegradation: < 1 % Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: no

Physico-chemical : Remarks: Not readily biodegradable.



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removability

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 : Remarks: Not applicable for inorganic compound.

Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: not tested.

**Components:** 

C.I. Pigment Black 7:

Bioaccumulation : Remarks: Not applicable

C.I. Pigment Blue 15:3:

Bioaccumulation : Remarks: Due to the low logPow bioaccumulation is not

expected

C.I. Pigment White 6:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 20 - 200

Exposure time: 14 d Concentration: 0.1 - 1 mg/l

Method: Other

GLP: No information available.

Remarks: Does not accumulate in organisms.

Partition coefficient: n-

octanol/water

Remarks: inorganic

Mobility in soil

**Product:** 

Distribution among : Remarks: not tested.

environmental compartments

Components:

C.I. Pigment Black 7:

Mobility : Remarks: Known distribution to environmental compartments



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Distribution among : environmental compartments

Adsorption/Soil Medium: water - soil Remarks: Not applicable

C.I. Pigment Blue 15:3:

Distribution among : environmental compartments

adsorption 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

log Koc: 4.61 Method: Other

Other adverse effects

**Product:** 

Results of PBT and vPvB

assessment

Remarks: No information is available as no chemical safety

report (CSR) is required.

Additional ecological

information

Do not allow to enter ground water, waterways or waste water.

**Components:** 

C.I. Pigment Black 7:

Environmental fate and

pathways

not available

Results of PBT and vPvB

assessment

The substance is not identified as a PBT or as a vPvB

substance.

Additional ecological

information

Do not allow to enter ground water, waterways or waste water.

C.I. Pigment Blue 15:3:

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.

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



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Environmental fate and

pathways

not available

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
IATA not restricted
IMDG not restricted

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

The components of this product are reported in the following

inventories:

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

**Canadian lists** 

No substances are subject to a Significant New Activity Notification.

### **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 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



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CA AB OEL / TWA : 8-hour Occupational exposure limit 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; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch -Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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information before handling any of these products. For additional information, please contact Clariant.

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