

RENOL-BROWN CV82800007-ZN

Page 1

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

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:

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

Emergency tel. number: +1 800-424-9300 CHEMTREC, +1 (703)

527-3887 INTERNATIONAL

Trade name: RENOL-BROWN CV82800007-ZN

Material number: CV82800007

Chemical family: Colourant preparation

Carrier: PVC

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: PVC

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
C.I. Pigment Yellow 164	68412-38-4	< 0.1
C.I. Pigment Brown 24	68186-90-3	0.5 - 1
Limestone	1317-65-3	0.5 - 1
Zinndioctyl-bis(thioglykolsäureisooctylester)	26401-97-8	1 - 2.5
C.I. Pigment White 6	13463-67-7	40 - 60

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and by the Canadian WHMIS 2015 Hazardous Products Regulations (SOR/2015-17)., The



RENOL-BROWN CV82800007-ZN

Page 2

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

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: Hydrogen chloride Carbon monoxide



RENOL-BROWN CV82800007-ZN

Page 3

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Carbon dioxide (CO2) Sulphur oxides Metal oxides Calcium oxide

Further information : Combustible material

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

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

potential dust explosion hazard.

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

courses.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment:

for firefighters

Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Avoid contact with skin, eyes and clothing.

Wash thoroughly after handling.

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

Prevent product from entering drains.

Methods and materials for containment and cleaning up

Avoid dust formation.

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

processing.

After cleaning, flush away traces with water.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion

Advice on protection against : Take measures to prevent the build up of electrostatic charge.

Advice on safe handling

Handle in accordance with good industrial hygiene and safety

practice.

Use only with adequate ventilation/personal protection.

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

Use only with adequate ventilation.

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

Lead off electrostatic charges.

Conditions for safe storage

Keep container tightly closed in a cool, well-ventilated place.



RENOL-BROWN CV82800007-ZN

Page 4

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

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 Brown 24	68186-90-3	TWAEV	0.5 mg/m3 (antimony)	CA ON OEL	
		TWA	0.5 mg/m3 (antimony)	CA AB OEL	
	Further information: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required				
		TWAEV	0.5 mg/m3 (antimony)	CA QC OEL	
		TWA	0.5 mg/m3 (antimony)	CA BC OEL	
C.I. Pigment Yellow 164	68412-38-4	TWAEV	5 mg/m3 (Manganese)	CA QC OEL	
		TWAEV	0.5 mg/m3 (antimony)	CA ON OEL	
		TWAEV	0.2 mg/m3 (Manganese)	CA ON OEL	
		TWA	0.5 mg/m3 (antimony)	CA AB OEL	
	irritation effec	Further information: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
		TWA	0.2 mg/m3 (Manganese)	CA AB OEL	
		TWAEV	0.5 mg/m3 (antimony)	CA QC OEL	
		TWAEV (total dust)	0.2 mg/m3 (Manganese)	CA QC OEL	
		TWA	0.5 mg/m3 (antimony)	CA BC OEL	
		TWA	0.2 mg/m3 (Manganese)	CA BC OEL	



RENOL-BROWN CV82800007-ZN

Page 5

Substance key: 000000652054	Revision Date: 11/29/2016
Version: 1 - 0 / CDN	Date of printing :12/15/2017

	Further information: Adverse reproductive effect			
C.I. Pigment White 6	13463-67-7	TWA	10 mg/m3	CA AB OEL
	Further information: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
	Work concadio	TWA	10 mg/m3	CA BC OEL
	Further inform	ation: IARC '2B'	applies to substance	
	possibly carcinogenic to humans., The 8-hour TWA listed in the Table is for the total dust. The substance also has an 8-hour TWA of 3 mg/m3 for the respirable fraction.			
		TWAEV (Total)	10 mg/m3	CA ON OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
	Further information: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1 %.			
		TWAEV (total dust)	10 mg/m3	CA QC OEL
	Further information: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1 %.			
Limestone	1317-65-3	TWA	10 mg/m3	CA AB OEL
	Further information: Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
		TWA	10 mg/m3	CA BC OEL
		substance also fraction.	r TWA listed in the T has an 8-hour TWA	of 3 mg/m3 for
		STEL	20 mg/m3	CA BC OEL
	Further information: The 8-hour TWA listed in the Table is for the total dust. The substance also has an 8-hour TWA of 3 mg/m3 for the respirable fraction.			
		TWAEV (total dust)	10 mg/m3	CA QC OEL
	Further information: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1 %.			
		TWAEV (total dust)	10 mg/m3	CA QC OEL
	Further information: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1 %.			
Zinndioctyl- bis(thioglykolsäureisooctyleste r)	26401-97-8	TWAEV	0.1 mg/m3 (Tin)	CA ON OEL
,	Further information: Skin			
		TWA	0.1 mg/m3 (Tin)	CA AB OEL
	Further information: Substance may be readily absorbed through intact skin			



RENOL-BROWN CV82800007-ZN

Page 6

Substance key: 000000652054	Revision Date: 11/29/2016
Version: 1 - 0 / CDN	Date of printing :12/15/2017

	STEL	0.2 mg/m3 (Tin)	CA AB OEL
Further information: Substance may be readily absorbed through intact skin			
	TWAEV	0.1 mg/m3 (Tin)	CA QC OEL
Further information: Skin (percutaneous)			
	STEV	0.2 mg/m3 (Tin)	CA QC OEL
Further information: Skin (percutaneous)			
	TWA	0.1 mg/m3 (Tin)	CA BC OEL
Further information: Contributes significantly to the overall exposure by the skin route.			
	STEL	0.2 mg/m3 (Tin)	CA BC OEL
Further information: Contributes significantly to the overall exposure by the skin route.			
	TWA	0.1 mg/m3 (Tin)	CA ON OEL
Further information: Skin			

Engineering measures

Use only in area provided with appropriate exhaust

ventilation.

Provide appropriate exhaust ventilation at machinery and at

places where dust can be generated.

Use engineering controls such as local or general exhaust to maintain airborne concentrations below exposure limits.

Personal protective equipment

Respiratory protection : Use NIOSH/MSHA approved respirators following

manufacturer's recommendations where dust or fume may be

generated.

Use respiratory protective equipment when using this product

at elevated temperatures (see section 8).

Hand protection

Remarks : Nitrile rubber gloves. Impervious butyl rubber gloves PVC

Neoprene gloves When handling hot material, use heat

resistant gloves.

Eye protection : Safety glasses with side-shields

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

prevent skin contact.

When handling hot melts use suitable protective clothing.

Hygiene measures : The usual Industrial Hygiene precautions must be taken

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

work intervals and after work.



RENOL-BROWN CV82800007-ZN

Page 7

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Granules

Colour : brown

Odour : characteristic

Odour Threshold : Not applicable

pH : Not applicable

Melting point : > 70 °C

Boiling point : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : not determined

Self-ignition : Not applicable

Upper explosion limit : not tested.

Lower explosion limit : not tested.

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : not available

Density : not tested.

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

This property is not applicable for mixtures.

Decomposition temperature : > 200 °C

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : no data available

no data available



RENOL-BROWN CV82800007-ZN

Page 8

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

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

Lithium

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 acids and strong bases

Acids

Hazardous decomposition

products

: When handled and stored appropriately, no dangerous

decomposition products are known

The product does not contain any chemical groups which suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy

higher than 300 J/g.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

None known.

Acute toxicity

Product:

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

Method: Calculation method



RENOL-BROWN CV82800007-ZN

Page 9

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Components:

C.I. Pigment Brown 24:

Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg

Method: BASF test

GLP: no

Acute inhalation toxicity : Remarks: Not applicable

Acute dermal toxicity : Remarks: Not applicable

C.I. Pigment White 6:

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

Method: OECD Test Guideline 425

GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 3.4 - 5.1 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

GLP: no

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Not applicable

Skin corrosion/irritation

Product:

Result: No skin irritation

Components:

C.I. Pigment Brown 24:

Species: Rabbit Exposure time: 24 h Method: Draize Test Result: No skin irritation

GLP: no

C.I. Pigment White 6:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: no

Serious eye damage/eye irritation

Product:

Result: No eye irritation



RENOL-BROWN CV82800007-ZN

Page 10

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Components:

C.I. Pigment Brown 24:

Species: rabbit eye Result: slight irritation Method: FDA guideline

GLP: no

C.I. Pigment White 6:

Species: rabbit eye Result: non-irritant

Method: OECD Test Guideline 405 GLP: No information available.

Respiratory or skin sensitisation

Product:

Result: non-sensitizing

Components:

C.I. Pigment Brown 24:

Remarks: Not applicable

C.I. Pigment White 6:

Test Type: Mouse local lymphnode assay

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: non-sensitizing

GLP: No information available.

Test Type: Buehler Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: non-sensitizing

GLP: yes

Test Type: Respiratory system

Exposure routes: inhalation (dust/mist/fume)

Species: Mouse Method: Other

Result: Does not cause respiratory sensitisation.

GLP: No information available.

Germ cell mutagenicity

Components:

C.I. Pigment Brown 24:

Genotoxicity in vitro : Test Type: Ames test



RENOL-BROWN CV82800007-ZN

Page 11

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Species: Salmonella typhimurium Concentration: 100 - 5000 µg/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Test Type: Ames test Species: Escherichia coli

Concentration: 2,5 - 5000 µg/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

: Test Type: Chromosome aberration test in vitro

Species: Chinese hamster lung cells Concentration: 0,5 - 900 µg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative GLP: yes

Test Type: In vitro gene mutation study in mammalian cells

Species: mouse lymphoma cells Concentration: 3,13 - 100 µg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Germ cell mutagenicity -

Assessment

It is concluded that the product is not mutagenic based on

evaluation of several mutagenicity tests.

C.I. Pigment White 6:

Genotoxicity in vitro : Test Type: Ames test

Species: Salmonella typhimurium Concentration: 333 - 5000 µg/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

: Test Type: Ames test Species: Escherichia coli

Concentration: 333 - 5000 µg/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (male and female)



RENOL-BROWN CV82800007-ZN

Page 12

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Strain: ICR

Cell type: Erythrocytes

Application Route: oral (gavage) Exposure time: single treatment Dose: 500 - 1000 - 2000 mg/kg Method: OECD Test Guideline 474

Result: negative

GLP: yes

Germ cell mutagenicity -

Assessment

It is concluded that the product is not mutagenic based on

evaluation of several mutagenicity tests.

Carcinogenicity

Components:

C.I. Pigment Brown 24:

Carcinogenicity - Assessment

: Not classifiable as a human carcinogen.

C.I. Pigment White 6:

Carcinogenicity - Assessment

: Not classifiable as a human carcinogen.

Reproductive toxicity

Components:

C.I. Pigment Brown 24:

Effects on fertility

Test Type: One generation study

Species: Rat

Sex: male and female

Dose: 250 - 500 - 1000 mg/kg Exposure time: 41-45 d (f), 46 d (m) Frequency of Treatment: daily

Sprague-Dawley

Application Route: oral (gavage)

Group: yes

NOAEL: >= 1,000 mg/kg, F1: >= 1,000 mg/kg,

Method: OECD Test Guideline 422

GLP: yes

Effects on foetal development

Species: Rat

Application Route: oral (gavage) Exposure time: 41-45 d (f), 46 d (m) Dose: 250 - 500 - 1000 mg/kg

Group: yes >= 1,000 mg/kg >= 1,000 mg/kg

Number of exposures: daily Method: OECD Test Guideline 422



RENOL-BROWN CV82800007-ZN

Page 13

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

GLP: yes

Reproductive toxicity -

Assessment

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

C.I. Pigment White 6:

Effects on fertility

Remarks: The study is not necessary from a scientific

perspective.

Effects on foetal

development

Remarks: The study is not necessary from a scientific

perspective.

Reproductive toxicity -

Assessment

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

STOT - single exposure

Components:

C.I. Pigment Brown 24:

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

C.I. Pigment White 6:

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

STOT - repeated exposure

Components:

C.I. Pigment Brown 24:

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

C.I. Pigment White 6:

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

Repeated dose toxicity

Components:

C.I. Pigment Brown 24:

Species: Rat, male and female

NOAEL: 500 mg/kg

Application Route: oral (feed)

Exposure time: 90 d

Number of exposures: daily Dose: 0,5 - 5 - 50 - 500 mg/kg



RENOL-BROWN CV82800007-ZN

Page 14

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Group: yes

Method: OECD Test Guideline 408 GLP: No information available.

Application Route: Inhalation

Remarks: not tested.

Application Route: Skin contact

Remarks: not tested.

C.I. Pigment White 6:

Species: Rat, male NOAEL: 24,000 mg/kg

Application Route: oral (gavage)

Exposure time: 29 d Number of exposures: daily

Dose: 24000 mg/kg

Group: yes

Method: OECD Test Guideline 407 GLP: No information available.

Species: Rat, male and female

NOAEL: 0.01 mg/l

Application Route: Inhalation

Exposure time: 2 a

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

Dose: 0,0106 - 0,0507 - 0,250 mg/l

Group: yes

Method: Repeated Dose Toxicity (chronic Toxicity)

GLP: no

Application Route: Skin contact

Remarks: The study is not necessary from a scientific perspective.

Aspiration toxicity

Components:

C.I. Pigment Brown 24:

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).



RENOL-BROWN CV82800007-ZN

Page 15

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Further information

Components:

C.I. Pigment White 6:

Remarks: Lung damage possible.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

Remarks: no data available

Components:

C.I. Pigment Brown 24:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l

Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412 T.15

GLP: no

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

concentration.

Toxicity to daphnia and other :

aquatic invertebrates

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

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

Method: OECD Test Guideline 202

GLP: yes

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

concentration.

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

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

Method: OECD Test Guideline 201

GLP: yes

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

concentration.

Toxicity to fish (Chronic

toxicity)

Remarks: not required

Toxicity to daphnia and other :

aquatic invertebrates

(Chronic toxicity)

Toxicity to microorganisms

Remarks: not required

EC50 (Pseudomonas putida): > 10,000 mg/l

End point: Bacteria toxicity (respiration inhibition)



RENOL-BROWN CV82800007-ZN

Page 16

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Exposure time: 0.5 h Test Type: aquatic Analytical monitoring: no Method: DIN 38412 T.27

GLP: no

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

concentration.

Toxicity to soil dwelling

organisms Plant toxicity Remarks: Not applicable

: Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial

organisms

Remarks: Not applicable

C.I. Pigment White 6:

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

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

Method: EPA GLP: yes

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

concentration.

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

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

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

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

concentration.

LC50 (Cyprinodon variegatus (sheepshead minnow)): >

10,000 mg/l

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

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

GLP: yes

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

concentration.

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h Test Type: static test

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

GLP: no data available

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

concentration.



RENOL-BROWN CV82800007-ZN

Page 17

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

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

Exposure time: 48 h

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

GLP: yes

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

concentration.

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

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

Method: EPA

GLP: No information available.

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

concentration.

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

End point: Growth rate Exposure time: 72 h

Analytical monitoring: no data available

Method: ISO 10253

GLP: yes

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

concentration.

Toxicity to fish (Chronic

toxicity)

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

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

Method: Other

GLP: No information available.

Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

Remarks: Not applicable

Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage):

> 1,000 mg/l

End point: Bacteria toxicity (respiration inhibition)

Exposure time: 3 h Test Type: aquatic

Method: OECD Test Guideline 209

GLP: ves

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



RENOL-BROWN CV82800007-ZN

Page 18

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Test Type: aquatic

Method: OECD Test Guideline 209

GLP: ves

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 (Lactuca sativa (lettuce)): >= 10 %

Exposure time: 20 h End point: Growth

Analytical monitoring: yes

Method: Other GLP: no

Remarks: By analogy with a product of similar composition

No effect on the growth was observed.

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

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

Method: Other GLP: no

Remarks: By analogy with a product of similar composition

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

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

Test substance: Natural sediment Analytical monitoring: no data available

Method: Other GLP: yes

Toxicity to terrestrial organisms

Remarks: Not applicable



RENOL-BROWN CV82800007-ZN

Page 19

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Persistence and degradability

Components:

C.I. Pigment Brown 24:

Biodegradability : Remarks: Not applicable for inorganic compound.

Physico-chemical : Remarks: Inorganic product, cannot be eliminated from the

removability water by biological purification processes.

C.I. Pigment White 6:

Biodegradability : Remarks: Not applicable for inorganic compound.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: not tested.

Components:

C.I. Pigment Brown 24:

Bioaccumulation : Remarks: Not relevant for inorganic substances

C.I. Pigment White 6:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 20 - 200

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

Method: Other

GLP: No information available.

Remarks: Does not accumulate in organisms.

Mobility in soil

Product:

Distribution among : Remarks: not tested.

environmental compartments

Components:

C.I. Pigment Brown 24:

Distribution among : Remarks: Not applicable

environmental compartments

C.I. Pigment White 6:

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

Distribution among : Adsorption/Soil environmental compartments Medium: water - soil

log Koc: 4.61 Method: Other



RENOL-BROWN CV82800007-ZN

Page 20

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

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 Brown 24:

Environmental fate and

pathways

Results of PBT and vPvB

assessment

: not available

The substance is inorganic, thus a PBT and vPvB criteria

assessment is not applicable according to Annex XIII of

Regulation (EC) 1907/2006.

Additional ecological

information

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

C.I. Pigment White 6:

Environmental fate and

pathways

Results of PBT and vPvB

assessment

: not available

The substance is inorganic, thus a PBT and vPvB criteria assessment is not applicable according to Annex XIII of

Regulation (EC) 1907/2006.

Additional ecological

information

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of this product in accordance with all applicable local,

state and federal regulations.

Contaminated packaging : Regulations concerning reuse or disposal of used packaging

materials must be observed.

SECTION 14. TRANSPORT INFORMATION

TDG not restricted
IATA not restricted
IMDG not restricted

SECTION 15. REGULATORY INFORMATION

NPRI Components : Chromium (III) compound



RENOL-BROWN CV82800007-ZN

Page 21

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

Antimony compounds Manganese Compound

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

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

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

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

Revision Date : 11/29/2016

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RENOL-BROWN CV82800007-ZN

Page 22

 Substance key: 000000652054
 Revision Date: 11/29/2016

 Version: 1 - 0 / CDN
 Date of printing: 12/15/2017

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