

PVC 9630 005.000% SPECTRUM RED

Page 1

Substance key: 000000766516	Revision Date: 05/08/2019
Version: 1 - 0 / CDN	Date of printing :05/08/2019

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: PVC 9630 005.000% SPECTRUM RED

Material number: CV34765615

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

Components

Chemical name	CAS-No.	Concentration (% w/w)
C.I. Pigment Black 28	68186-91-4	0.1 - 1
Resin acids and Rosin acids, barium	68188-14-7	0.1 - 1
salts		
Barium bis[6-chloro-4-[(2-hydroxy-1-	73612-34-7	0.1 - 1
naphthyl)azo]toluene-3-sulphonate]		
C.I. Pigment White 6	13463-67-7	1 - 5
Calcium distearate	1592-23-0	1 - 5



PVC 9630 005.000% SPECTRUM RED

Page 2

Substance key: 000000766516	Revision Date: 05/08/2019
Version: 1 - 0 / CDN	Date of printing :05/08/2019

C.I. Pigment Red 53:1	5160-02-1	1 - 5
Di-n-octyltin-bis-(2-	15571-58-1	1 - 5
ethylhexylthioglycolate)		
Polyvinyl chloride	9002-86-2	60 - 80

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and by the Canadian WHMIS 2015 Hazardous Products Regulations (SOR/2015-17)., The hazardous ingredients of this product are encapsulated, therefore the material is not GHS classified for health and environmental hazards as exposure is not expected., Any concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

If inhaled : Move the victim to fresh air.

Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention.

Never give anything by mouth to an unconscious person.

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

In case of burns apply cold water until pain subsides then

seek medical advice.

Burns must be treated by a physician.

If molten polymer contact the skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn. Skin absorption of

reground pellets is unlikely.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Get medical attention immediately if irritation develops and

persists.

If swallowed : Rinse mouth.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

Get medical advice/ attention.

Most important symptoms and effects, both acute and

delayed

The possible symptoms known are those derived from the

labelling (see section 2).

No additional symptoms are known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Foam

Carbon dioxide (CO2)

Dry chemical



PVC 9630 005.000% SPECTRUM RED

Page 3

Substance key: 000000766516 Revision Date: 05/08/2019 Version: 1-0/CDN Date of printing:05/08/2019

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 Carbon dioxide (CO2)

Metal oxides See chapter 10.

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

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.



PVC 9630 005.000% SPECTRUM RED

Page 4

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

For personal protection see section 8. Avoid contact with skin, eyes and clothing. Use only with adequate ventilation.

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

Lead off electrostatic charges.

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

Protect from moisture.

Keep away from direct sunlight.

Further information on storage conditions

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

sealed when not in use.

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

Materials to avoid : not required

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
C.I. Pigment Black 28	68186-91-4	TWA	1 mg/m3 (Copper)	NIOSH REL
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
Calcium distearate	1592-23-0	TWA	10 mg/m3	CA AB OEL
		TWA	10 mg/m3	CA BC OEL
		TWA (Inhalable fraction)	10 mg/m3	ACGIH
		TWA (Respirable fraction)	3 mg/m3	ACGIH
Polyvinyl chloride	9002-86-2	TWA (Respirable)	1 mg/m3	CA BC OEL
		TWAEV (total dust)	10 mg/m3	CA QC OEL
		TWA (Respirable fraction)	1 mg/m3	ACGIH



PVC 9630 005.000% SPECTRUM RED

Page 5

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

C.I. Pigment Red 53:1 5160-02-1 TWA 1 mg/m3 US WEEL

Engineering measures : Use only in area provided with appropriate exhaust

ventilation.

Provide appropriate exhaust ventilation at machinery and at

places where dust can be generated.

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

Personal protective equipment

Respiratory protection : Use NIOSH/MSHA approved respirators following

manufacturer's recommendations where dust or fume may be

generated.

Use respiratory protective equipment when using this product

at elevated temperatures (see section 8).

Hand protection

Remarks : Nitrile rubber gloves. Impervious butyl rubber gloves PVC

Neoprene gloves When handling hot material, use heat

resistant gloves.

Eye protection : Safety glasses with side-shields

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

to prevent skin contact.

When handling hot melts use suitable protective clothing.

Hygiene measures : The usual Industrial Hygiene precautions must be taken

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

work intervals and after work.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Granules

Colour : red

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



PVC 9630 005.000% SPECTRUM RED

Page 6

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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 : No decomposition up to 200 °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

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



PVC 9630 005.000% SPECTRUM RED

Page 7

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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. This product contains a diarylide or other benzidine based pigment. These pigments should not be used in polymers where the processing temperature could exceed 200 °C, due to the possibility of thermal decomposition, products of which include traces of aromatic amines. 3,3'-dichlorobenzidine may be formed at temperatures > 200 °C.

3,3'-Dichlorobenzidine: Danger! According to the harmonised classification and labelling approved by the European Union, this substance may cause cancer (H350), is very toxic to aquatic life (H400), is very toxic to aquatic life with long lasting effects (H410), is harmful in contact with skin (H312) and may cause an allergic skin reaction (H317). Obtain special instructions before use (P201), avoid release to the environment (P273), wear protective gloves/protective clothing (P280), if exposed or concerned: Get medical advice/attention

(P308 + P313)

Incompatible materials : none

Strong acids and oxidizing agents

Hazardous decomposition products

3,3'-Dichlorbenzidine can be formed at temperatures > 200 °C. 3,3'-Dichlorbenzidine - List in accordance with Paragraph

4a of the German Hazardous Substances Regulation

(GefStoffV): Carc. Cat. 2, T = Toxic.

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 $^{\circ}$ 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 inhalation toxicity : Acute toxicity estimate: 122.09 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



PVC 9630 005.000% SPECTRUM RED

Page 8

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Components:

Barium bis[6-chloro-4-[(2-hydroxy-1-naphthyl)azo]toluene-3-sulphonate]:

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

toxicity

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

inhalation toxicity

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

Calcium distearate:

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

Method: OECD Test Guideline 423

GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 3 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

GLP: yes

Remarks: By analogy with a product of similar composition

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

Method: OECD Test Guideline 402

GLP: yes

Remarks: By analogy with a product of similar composition

C.I. Pigment Red 53:1:

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

Method: OECD Test Guideline 401

GLP: no

Remarks: No significant adverse effects were reported

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.24 mg/l

Exposure time: 4 h



PVC 9630 005.000% SPECTRUM RED

Page 9

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Acute dermal toxicity : Remarks: not required

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Acute oral toxicity : LD50 (Rat, male and female): 2,000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : Remarks: Not applicable

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

Method: OECD Test Guideline 402

GLP: yes

Polyvinyl chloride:

Acute oral toxicity : Remarks: Not relevant

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

inhalation toxicity

Acute dermal toxicity : Remarks: Not relevant

Skin corrosion/irritation

Product:

Result: No skin irritation

Components:

C.I. Pigment White 6:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: no

Calcium distearate:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Remarks: By analogy with a product of similar composition

C.I. Pigment Red 53:1:

Species: Rabbit Exposure time: 4 h



PVC 9630 005.000% SPECTRUM RED

Page 10

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Polyvinyl chloride:

Remarks: This information is not available.

Serious eye damage/eye irritation

Product:

Result: No eye irritation

Components:

C.I. Pigment White 6:

Species: rabbit eye Result: No eye irritation

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

Calcium distearate:

Species: rabbit eye Result: No eye irritation

Method: OECD Test Guideline 405

GLP: yes

Remarks: By analogy with a product of similar composition

C.I. Pigment Red 53:1:

Species: Rabbit

Result: No eye irritation Exposure time: 24 h

Method: OECD Test Guideline 405

GLP: yes

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Species: rabbit eye Result: non-irritant Exposure time: 96 h

Method: OECD Test Guideline 405

GLP: yes

Polyvinyl chloride:

Remarks: This information is not available.

Respiratory or skin sensitisation

Product:

Result: non-sensitizing



PVC 9630 005.000% SPECTRUM RED

Page 11

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Components:

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.

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.

Calcium distearate:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Dermal

Species: Mouse

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

GLP: yes

Remarks: By analogy with a product of similar composition

Test Type: Respiratory system Exposure routes: Inhalation

Remarks: This information is not available.

C.I. Pigment Red 53:1:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Dermal

Species: Mouse

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

GLP: yes

Remarks: By analogy with a product of similar composition

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Test Type: Guinea pig maximization test

Exposure routes: Skin contact

Species: Guinea pig



PVC 9630 005.000% SPECTRUM RED

Page 12

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

GLP: yes

Polyvinyl chloride:

Exposure routes: Skin contact

Result: not known

Germ cell mutagenicity

Components:

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

Calcium distearate:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium Method: OECD Test Guideline 471

Result: negative GLP: yes

Test Type: In vitro gene mutation study in mammalian cells

Test system: mouse lymphoma cells



PVC 9630 005.000% SPECTRUM RED

Page 13

Substance key: 000000766516 Revision Date: 05/08/2019 Version: 1 - 0 / CDN Date of printing:05/08/2019

Method: OECD Test Guideline 476

Result: negative

GLP: ves

Remarks: By analogy with a product of similar composition

Test Type: Cytogenetic assay

Test system: V79 cells (embryonic lung fibroblasts) of the

Chinese hamster

Method: OECD Test Guideline 473

Result: negative GLP: yes

Remarks: By analogy with a product of similar composition

Germ cell mutagenicity -

Assessment

It is concluded that the product is not mutagenic based on

evaluation of several mutagenicity tests.

C.I. Pigment Red 53:1:

Genotoxicity in vitro

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells Concentration: 1,25 - 15 mug/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: no data available

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

Concentration: 5 - 500 mug/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: no data available

Test Type: unscheduled DNA synthesis assay

Test system: rat hepatocytes Concentration: 10 - 1000 muM Metabolic activation: without Method: OECD Test Guideline 482

Result: negative

GLP: no

Test Type: Ames test

Test system: Salmonella typhimurium Concentration: 4 - 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: Rat (male)

Cell type: Bone marrow cells Application Route: oral (gavage)



PVC 9630 005.000% SPECTRUM RED

Page 14

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Exposure time: 24 - 48 h Dose: 500 - 1000 - 2000 mg/kg Method: OECD Test Guideline 475

Result: negative GLP: no data available

Germ cell mutagenicity -

Assessment

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

not show mutagenic effects

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Genotoxicity in vitro : Test Type: In vitro gene mutation study in mammalian cells

Test system: mouse lymphoma cells Concentration: 0,006 - 100 µg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Test Type: Ames test

Test system: Salmonella typhimurium Concentration: 150 - 12150 µg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: no

Genotoxicity in vivo : Test Type: Chromosome Aberration Test

Species: Mouse (male and female) Cell type: Bone marrow cells Application Route: oral (gavage)

Exposure time: 30 h

Dose: 2250 - 4500 - 9000 mg/kg Method: OECD Test Guideline 474

Result: negative

GLP: No information available. Test substance: other TS

Test Type: Chromosome Aberration Test

Species: Mouse (male and female)

Strain: CD1

Cell type: Bone marrow cells Application Route: oral (gavage)

Exposure time: 72 h

Dose: 2250 - 4500 - 9000 mg/kg Method: OECD Test Guideline 474

Result: negative

GLP: No information available. Test substance: other TS

Germ cell mutagenicity -

Assessment

It is concluded that the product is not mutagenic based on

evaluation of several mutagenicity tests.



PVC 9630 005.000% SPECTRUM RED

Page 15

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Polyvinyl chloride:

Genotoxicity in vitro : Remarks: Not applicable

Germ cell mutagenicity -

Assessment

No information available.

Carcinogenicity

Components:

C.I. Pigment White 6:

Carcinogenicity - Assessment

: Not classifiable as a human carcinogen.

Calcium distearate:

Carcinogenicity -

Assessment

: Not classifiable as a human carcinogen.

C.I. Pigment Red 53:1:

Species: Rat, (male and female) Application Route: oral (feed)

Exposure time: 2 a Dose: 1000 - 3000 ppm

Group: yes

Frequency of Treatment: daily Method: OECD Test Guideline 451

GLP: no

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

Carcinogenicity -

: No evidence of carcinogenicity in animal studies.

Assessment

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Carcinogenicity -

No information available.

Assessment

Polyvinyl chloride:

Carcinogenicity - : No information available.

Assessment

Reproductive toxicity

Components:

C.I. Pigment White 6:

Effects on fertility : Remarks: no data available

Effects on foetal : Test Type: Pre-natal development : Species: Rat, female

Strain: wistar



PVC 9630 005.000% SPECTRUM RED

Page 16

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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.

Calcium distearate:

Effects on fertility : Species: Rat

Application Route: Oral

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

Species: Rat

Application Route: Oral

Teratogenicity: NOAEL: > 1,000 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

Remarks: By analogy with a product of similar composition

Reproductive toxicity -

Assessment

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

C.I. Pigment Red 53:1:

Effects on fertility : Species: Rat, male and female

Strain: Sprague-Dawley Application Route: oral (feed) Dose: 0,05 - 0,5 - 1,5 - 5 mg/kg

General Toxicity - Parent: NOAEL: 5 mg/kg body weight General Toxicity F1: NOAEL: 5 mg/kg body weight General Toxicity F2: NOAEL: 5 mg/kg body weight

Method: Other GLP: no

Remarks: Based on available data, the classification criteria

are not met.

Effects on foetal development

Test Type: Pre-natal

Species: Rat, male and female

Strain: Sprague-Dawley

Application Route: oral (gavage)

Dose: 1,5 - 5 - 15 mg/kg

General Toxicity Maternal: NOAEL: 15 mg/kg body weight



PVC 9630 005.000% SPECTRUM RED

Page 17

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Teratogenicity: NOAEL: 15 mg/kg body weight

Method: OECD Test Guideline 414

GLP: no

Remarks: Based on available data, the classification criteria

are not met.

Reproductive toxicity -

Assessment

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

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female Strain: Sprague-Dawley Application Route: oral (feed) Dose: 20 - 60 -200 ppm

General Toxicity - Parent: NOAEL: ca. 1.6 mg/kg body weight

General Toxicity F1: NOAEL: 1.6 mg/kg body weight

Method: OECD Test Guideline 416

GLP: yes

Remarks: By analogy with a product of similar composition

Effects on foetal : Species: Rabbit

development Strain: New Zealand white

Application Route: oral (gavage)

Dose: 4 - 20 - 80 mg/kg

General Toxicity Maternal: NOAEL: 20 mg/kg body weight

Teratogenicity: NOAEL: 80 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

Reproductive toxicity -

Assessment

Clear evidence of adverse effects on development, based on

animal experiments.

Classification as "teratogenic" is not justifiable.

Polyvinyl chloride:

Effects on fertility : Remarks: This information is not available.

Effects on foetal development

Remarks: This information is not available.

Reproductive toxicity - : No information available. Assessment : No information available.

STOT - single exposure

Components:

C.I. Pigment White 6:

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



PVC 9630 005.000% SPECTRUM RED

Page 18

Substance key: 000000766516	Revision Date: 05/08/2019
Version: 1 - 0 / CDN	Date of printing :05/08/2019

Calcium distearate:

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

C.I. Pigment Red 53:1:

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

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

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

Polyvinyl chloride:

Remarks: no data available

STOT - repeated exposure

Components:

C.I. Pigment White 6:

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

Calcium distearate:

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

C.I. Pigment Red 53:1:

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

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

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

Polyvinyl chloride:

Remarks: no data available

Repeated dose toxicity

Components:

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



PVC 9630 005.000% SPECTRUM RED

Page 19

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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

Calcium distearate:

Species: Rat

NOAEL: > 2,000 mg/kg Application Route: Oral

Method: OECD Test Guideline 407

GLP: yes

C.I. Pigment Red 53:1:

Species: Mouse, male and female NOAEL: 100 mg/kg bw/day Application Route: oral (feed) Exposure time: 18 month Number of exposures: daily Dose: 0, 50, 250, 1000 ppm in diet Method: OECD Test Guideline 453

GLP: no

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Species: Rat, male and female

NOAEL: 0.5 mg/kg

Application Route: oral (feed)

Exposure time: 90 d Number of exposures: daily

Dose: 10-25-50-100-250-500-1000 ppm

Group: yes

Method: OECD Test Guideline 408

GLP: no

Polyvinyl chloride:

Remarks: This information is not available.



PVC 9630 005.000% SPECTRUM RED

Page 20

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Aspiration toxicity

Components:

C.I. Pigment White 6:

No aspiration toxicity classification

Calcium distearate:

No aspiration toxicity classification

C.I. Pigment Red 53:1:

No aspiration toxicity classification

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

No aspiration toxicity classification

Polyvinyl chloride:

No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

Further information

Components:

C.I. Pigment White 6:

Remarks: Lung damage possible.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

Remarks: no data available

Components:

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



PVC 9630 005.000% SPECTRUM RED

Page 21

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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.

Toxicity to algae/aquatic

plants

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



PVC 9630 005.000% SPECTRUM RED

Page 22

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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

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.



PVC 9630 005.000% SPECTRUM RED

Page 23

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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

Calcium distearate:

Toxicity to fish : LC50 (Orycias latipes): > 100 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

Toxicity to fish (Chronic

toxicity)

Remarks: not required

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): > 0.22 mg/l

Exposure time: 21 d Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

Remarks: By analogy with a product of similar composition

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

End point: Bacteria toxicity (respiration inhibition)

Exposure time: 3 h Test Type: aquatic



PVC 9630 005.000% SPECTRUM RED

Page 24

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Method: OECD Test Guideline 209

GLP: ves

Remarks: By analogy with a product of similar composition

Toxicity to soil dwelling

organisms

Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: no data available

Toxicity to terrestrial

organisms

Remarks: Not applicable

C.I. Pigment Red 53:1:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 500 mg/l

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

Method: OECD Test Guideline 203

GLP: yes

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

concentration.

NOEC (Danio rerio (zebra fish)): 500 mg/l

End point: mortality Exposure time: 96 h Test Type: 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)): > 3.8 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

NOEC (Daphnia magna (Water flea)): 3.8 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l



PVC 9630 005.000% SPECTRUM RED

Page 25

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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

The details of the toxic effect relate to the nominal

concentration.

NOEC (Pseudokirchneriella subcapitata (green algae)): 3.2

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

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

NOEC (activated sludge): 100 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: By analogy with a product of similar composition

Toxicity to soil dwelling

organisms

Test Type: artificial soil

LC0 (Eisenia fetida (earthworms)): 1,000 mg/kg

Exposure time: 14 d End point: mortality

Method: OECD Test Guideline 207

GLP: ves

Remarks: By analogy with a product of similar composition

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: ves

Remarks: By analogy with a product of similar composition



PVC 9630 005.000% SPECTRUM RED

Page 26

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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

weight (d.w.)

Analytical monitoring: no Sediment: artificial soil Exposure duration: 28 d Nominal / Measured: nominal Basis for effect: mortality Method: OECD 225

GLP: yes

Remarks: By analogy with a product of similar composition

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 24 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

EC50 (Daphnia magna (Water flea)): 0.17 mg/l

Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 0.17 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: Directive 87/302/EEC, part C, p. 89

GLP: yes

NOEC (Desmodesmus subspicatus (green algae)): 0.04 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

M-Factor (Acute aquatic

toxicity)

: 1

Toxicity to fish (Chronic

toxicity)

Remarks: not required

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 0.286 mg/l

Exposure time: 21 d Test Type: semi-static test Analytical monitoring: yes



PVC 9630 005.000% SPECTRUM RED

Page 27

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Method: OECD Test Guideline 211

GLP: yes

M-Factor (Chronic aquatic

toxicity)

1

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

End point: Bacteria toxicity (respiration inhibition)

Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: no

Method: Directive 87/302/EEC, part C, p. 118

GLP: yes

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

concentration.

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

Polyvinyl chloride:

Toxicity to fish : no toxicity, except ingestion

Remarks: Not applicable

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: Not applicable

Toxicity to algae/aquatic

plants

Remarks: Not applicable

Toxicity to fish (Chronic

toxicity)

no toxicity, except ingestion Remarks: Not applicable

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

Remarks: Not applicable

Toxicity to microorganisms : Remarks

: Remarks: Not applicable

Toxicity to soil dwelling

organisms

Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial : no toxicity, except ingestion



PVC 9630 005.000% SPECTRUM RED

Page 28

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

organisms Remarks: Not applicable

Persistence and degradability

Components:

C.I. Pigment White 6:

Biodegradability : Remarks: Not applicable for inorganic compound.

Calcium distearate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 93 %

Method: OECD Test Guideline 301C

Result: Readily biodegradable.

Biodegradation: 99 %

Method: OECD Test Guideline 301B

C.I. Pigment Red 53:1:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 33 mg/l Carbon dioxide (CO2) Result: Not biodegradable Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

Remarks: By analogy with a product of similar composition

aerobic

Inoculum: activated sludge Concentration: 100 mg/l

Biochemical Oxygen Demand (BOD)

Result: Not biodegradable Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301C

GI P: no

Remarks: By analogy with a product of similar composition

Stability in water : Test Type: abiotic

Hydrolysis: (0 %)

Method: OECD Test Guideline 111

GLP: no

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 50 mg/l

Biochemical Oxygen Demand (BOD)



PVC 9630 005.000% SPECTRUM RED

Page 29

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Result: Not readily biodegradable. Biodegradation: 30 - 40 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Polyvinyl chloride:

Biodegradability : Result: Not readily biodegradable.

Remarks: The polymer is too large to be bioavailable.

Not applicable due to insolubility in water. This product does

not come into contact with the effluent when it is used for its purpose, otherwise it can be removed by filtration operations.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: not tested.

Components:

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

Calcium distearate:

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

expected

C.I. Pigment Red 53:1:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): < 6.9

Exposure time: 42 d Temperature: 25 °C Concentration: 0.03 mg/l

Method: OECD Test Guideline 305C

GLP: no data available

Remarks: By analogy with a product of similar composition

Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: -0.62 (23 °C)

Method: OECD Test Guideline 107

GLP: no



PVC 9630 005.000% SPECTRUM RED

Page 30

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 99 - 1,294

Exposure time: 30 d

Concentration: DOT: 0,25 - 2,5 µg/l Method: OECD Guide-line 305 B

GLP: yes

Polyvinyl chloride:

Bioaccumulation : Remarks: Not applicable

Mobility in soil

Product:

Distribution among : Remarks: not tested.

environmental compartments

Components:

C.I. Pigment White 6:

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

Distribution among environmental compartments

: Adsorption/Soil ments Medium: water - soil

log Koc: 4.61 Method: Other

C.I. Pigment Red 53:1:

Distribution among : adsorption environmental compartments Medium: Soil

Remarks: Not expected to adsorb on soil.

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

Distribution among : Remarks: Not applicable

environmental compartments

Polyvinyl chloride:

Distribution among : Remarks: The product is insoluble and sinks in water.

environmental compartments

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.



PVC 9630 005.000% SPECTRUM RED

Page 31

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

Components:

C.I. Pigment White 6:

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.

Calcium distearate:

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 Red 53:1:

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.

Di-n-octyltin-bis-(2-ethylhexylthioglycolate):

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.

Polyvinyl chloride:

Environmental fate and

pathways

: no data available

Results of PBT and vPvB

assessment

Remarks: Not applicable

Additional ecological

information

Has not been tested due to insolubility in water.



PVC 9630 005.000% SPECTRUM RED

Page 32

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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

Copper 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

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

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA : 8-hour, time-weighted average
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

US WEEL / TWA : 8-hr TWA



PVC 9630 005.000% SPECTRUM RED

Page 33

 Substance key: 000000766516
 Revision Date: 05/08/2019

 Version: 1 - 0 / CDN
 Date of printing: 05/08/2019

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 : 05/08/2019

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.



PVC 9630 005.000% SPECTRUM RED

Page 34

Substance key: 000000766516	Revision Date: 05/08/2019
Version: 1 - 0 / CDN	Date of printing :05/08/2019

CA / EN