

CV0-Z0N-0N WHITE TFA GLD

Page 1

Substance key: 000000645618

Revision Date: 11/08/2016

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SECTION 1. IDENTIFICATION

Identification of the company:

Clariant Plastics and Coatings
Canada Inc.
2 Lone Oak Court
Toronto, Ontario M9C 5R9,
Telephone No.: +1 416-847-7000

Information of the substance/preparation:

BU Masterbatches
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:

CV0-Z0N-0N WHITE TFA GLD

Synonyms:

PVC RVC-544 004.000% WHITE (01VFV-110)

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)
2-Ethylhexyl mercaptoacetate	7659-86-1	< 0.1
Diocetyl tin mercaptoacetate	15535-79-2	< 0.1
2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	27107-89-7	0.5 - 1

CV0-Z0N-0N WHITE TFA GLD

Page 2

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

Di-n-octyltin-bis-(2-ethylhexylthioglycolate)	15571-58-1	1 - 2.5
Calcium distearate	1592-23-0	2.5 - 3
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 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

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

- 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
Acrolein
Sulphur oxides
tin 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.

CV0-Z0N-0N WHITE TFA GLD

Page 4

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

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.

Technical measures/Precautions : 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 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			
		TWA	10 mg/m3	CA BC OEL
	Further information: IARC '2B' applies to substances deemed 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 %.			
Calcium distearate	1592-23-0	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			
		TWAEV (Total)	10 mg/m3	CA ON OEL

SAFETY DATA SHEET



CV0-Z0N-0N WHITE TFA GLD

Page 5

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

		TWA	10 mg/m3	CA BC OEL
	Further information: Does not include stearates of toxic metals.			
Diocetyl tin mercaptoacetate	15535-79-2	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			
		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

CV0-Z0N-0N WHITE TFA GLD

Page 6

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

- 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 : white
- 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.

CV0-Z0N-0N WHITE TFA GLD

Page 7

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

Decomposition temperature	:	> 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 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	:	Strong acids and oxidizing agents Incompatible with acids. Strong acids acetal homopolymers and acetal copolymers Amines Strong oxidizing agents Strong bases
Hazardous decomposition products	:	No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

None known.

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

Acute toxicity**Components:****Diocetyl tin mercaptoacetate:**

- Acute oral toxicity : LD50 (Rat, female): 300 - 2,000 mg/kg
Method: OECD Test Guideline 420
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
Remarks: By analogy with a product of similar composition

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

- Acute oral toxicity : LD50 (Rat, male and female): 2,000 - 5,000 mg/kg
Method: OECD Test Guideline 423
GLP: yes
- Acute inhalation toxicity : Remarks: Not applicable
- Acute dermal toxicity : LD0 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

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 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

CV0-Z0N-0N WHITE TFA GLD

Page 9

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

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:**Diocetyl tin mercaptoacetate:**

Species: EPISKIN Human Skin Model Test

Exposure time: 4 h

Method: OECD Test Guideline 439

Result: No skin irritation

GLP: yes

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Mild skin irritation

GLP: yes

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 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

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing :11/28/2016

Components:**Diocetyl tin mercaptoacetate:**

Species: rabbit eye
Result: Mild eye irritation
Exposure time: 96 h
Assessment: No skin irritation
Method: OECD Test Guideline 405
GLP: yes

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

Species: rabbit eye
Result: non-irritant
Method: OECD Test Guideline 405
GLP: yes

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 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:**Diocetyl tin mercaptoacetate:**

Test Type: Mouse local lymphnode assay
Exposure routes: Skin contact
Species: Mouse
Method: OECD Test Guideline 429
Result: Does not cause skin sensitisation.
GLP: yes
Remarks: By analogy with a product of similar composition

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

Test Type: Guinea pig maximization test
Exposure routes: Skin contact

CV0-Z0N-0N WHITE TFA GLD

Page 11

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing :11/28/2016

Species: Guinea pig
Method: OECD Test Guideline 406
Result: slightly sensitizing
GLP: yes

Calcium distearate:

Test Type: Mouse local lymphnode assay
Exposure routes: Dermal
Species: Mouse
Method: OECD Test Guideline 429
Result: Does not cause skin sensitisation.
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 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:****Diocetyl tin mercaptoacetate:**

Genotoxicity in vitro : Test Type: Ames test
Species: Salmonella typhimurium
Concentration: 50 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

CV0-Z0N-0N WHITE TFA GLD

Page 12

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing :11/28/2016

- Genotoxicity in vivo
- : Test Type: Ames test
Species: Escherichia coli
Concentration: 50 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
 - : Test Type: Chromosome Aberration Test
Species: Mouse (male)
Strain: Swiss Webster
Cell type: Bone marrow cells
Application Route: oral (gavage)
Exposure time: one treatment
Dose: 500 - 1000 - 2000 mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Test substance: other TS
- Germ cell mutagenicity - Assessment
- : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

- Genotoxicity in vitro
- : Test Type: In vitro gene mutation study in mammalian cells
Species: mouse lymphoma cells
Concentration: 2,4 - 55 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: positive
GLP: yes
 - : Test Type: Chromosome aberration test in vitro
Species: Cultured peripheral human lymphocytes
Concentration: 3,9 - 2000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes
- Genotoxicity in vivo
- : Test Type: Chromosome Aberration Test
Species: Rat (male)
Strain: wistar
Cell type: Bone marrow cells
Application Route: oral (gavage)
Exposure time: 48 h
Dose: 250 - 500 - 1000 mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: yes

CV0-Z0N-0N WHITE TFA GLD

Page 13

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing :11/28/2016

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Calcium distearate:

Genotoxicity in vitro : Test Type: Ames test
Species: Salmonella typhimurium
Method: OECD Test Guideline 471
Result: negative
GLP: yes

: Test Type: In vitro gene mutation study in mammalian cells
Species: mouse lymphoma cells
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Remarks: By analogy with a product of similar composition

: Test Type: Cytogenetic assay
Species: 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 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)
Strain: ICR
Cell type: Erythrocytes
Application Route: oral (gavage)
Exposure time: single treatment
Dose: 500 - 1000 - 2000 mg/kg

CV0-Z0N-0N WHITE TFA GLD

Page 14

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

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:****Diocetyl tin mercaptoacetate:**

Carcinogenicity - Assessment : No information available.

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

Carcinogenicity - Assessment : No information available.

Calcium distearate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

C.I. Pigment White 6:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity**Components:****Diocetyl tin mercaptoacetate:**

Effects on fertility :
Test Type: One generation study
Species: Rat
Sex: male and female
Dose: 5 - 25 - 250 mg/kg diet
Exposure time: 28 d
wistar
Application Route: oral (feed)
Group: yes
NOAEL: 0.3 - 0.5 mg/kg,
Method: OECD Test Guideline 422
GLP: yes
Remarks: By analogy with a product of similar composition

Effects on foetal development : Species: Rat
Application Route: oral (feed)
Exposure time: 28 d
Dose: 5 - 25 - 250 mg/kg diet

CV0-Z0N-0N WHITE TFA GLD

Page 15

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing :11/28/2016

Group: yes
0.3 - 0.5 mg/kg
Number of exposures: daily
Method: OECD Test Guideline 422
GLP: yes
Remarks: By analogy with a product of similar composition

Reproductive toxicity - Assessment : Suspected of damaging fertility. Suspected of damaging the unborn child.
Damage to fetus possible

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

Effects on fertility :
Test Type: One generation study
Species: Rat
Sex: male and female
Dose: 200 - 500 - 1250 mg/kg diet
Exposure time: 28 d (m), 42 d (f)
wistar
Application Route: oral (feed)
Group: yes
NOAEL: ca. 71.8 - 95.7 mg/kg,
F1: 71.8 - 95.7 mg/kg,
Method: OECD Test Guideline 421
GLP: yes

Effects on foetal development : Species: Rat
Application Route: oral (feed)
Exposure time: gestation day 6-19
Dose: 500 - 1250 - 3000 mg/kg diet
Group: yes
208 mg/kg
35 mg/kg
Number of exposures: continuously
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity - Assessment : Classification as "toxic for reproduction" is not justifiable.
Classification as "teratogenic" is not justifiable.

Calcium distearate:

Effects on fertility :
Species: Rat
Application Route: Oral
NOAEL: > 1,000 mg/kg,
F1: > 1,000 mg/kg,
Method: OECD Test Guideline 421
GLP: yes

Effects on foetal development : Species: Rat
Application Route: Oral

CV0-Z0N-0N WHITE TFA GLD

Page 16

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

> 1,000 mg/kg
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 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:****Diocetyl tin mercaptoacetate:**

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

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

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

Calcium distearate:

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:****Diocetyl tin mercaptoacetate:**

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

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

Assessment: May cause damage to organs through prolonged or repeated exposure.

Calcium distearate:

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:****Diocetyl tin mercaptoacetate:**

Species: Rat, male and female

NOAEL: 0.3 - 0.5 mg/kg

Application Route: oral (feed)

Exposure time: 28 d

Number of exposures: daily

Dose: 5 - 25 - 250 mg/kg diet

Group: yes

Method: OECD Test Guideline 422

GLP: yes

Application Route: Inhalation

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

Application Route: Skin contact

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

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

Species: Rat, male and female

NOAEL: 82 - 91 mg/kg

Application Route: oral (feed)

Exposure time: 13 w

Number of exposures: continuously

Dose: 200 - 500 - 1250 mg/kg diet

Group: yes

Method: OECD Test Guideline 408

GLP: yes

Calcium distearate:

Species: Rat

NOAEL: > 2,000 mg/kg

Application Route: Oral

Method: OECD Test Guideline 407

CV0-Z0N-0N WHITE TFA GLD

Page 18

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

GLP: yes

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:****Diocetyl tin mercaptoacetate:**

No aspiration toxicity classification

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

No aspiration toxicity classification

Calcium distearate:

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).

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

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:**2-Ethylhexyl mercaptoacetate:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Diocetyl tin mercaptoacetate:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 0.09 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.21 mg/l
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: By analogy with a product of similar composition

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 0.0018 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: no
Remarks: By analogy with a product of similar composition

NOEC (Desmodesmus subspicatus (green algae)): 0.00097 mg/l
End point: Growth rate

SAFETY DATA SHEET



CV0-Z0N-0N WHITE TFA GLD

Page 20

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: no
Remarks: By analogy with a product of similar composition

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

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

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
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes
Remarks: By analogy with a product of similar composition
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
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes
Remarks: By analogy with a product of similar composition
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

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 945 µg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: The product has low solubility in the test medium.

CV0-Z0N-0N WHITE TFA GLD

Page 21

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

An aqueous dispersion was tested.

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): ca. 20 - 40 µg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : EC50 (*Pseudokirchneriella subcapitata* (green algae)): > 8.8 µg/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
Remarks: The product has low solubility in the test medium.
An aqueous dispersion was tested.

NOEC (*Desmodesmus subspicatus* (green algae)): 8.8 µg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: The product has low solubility in the test medium.
An aqueous dispersion was tested.

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 36 µg/l
Exposure time: 21 d
End point: mortality
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: yes

M-Factor (Chronic aquatic toxicity) : 10

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 : Remarks: Not applicable

CV0-Z0N-0N WHITE TFA GLD

Page 22

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

organisms

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

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

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Calcium distearate:Toxicity to fish : LC50 (*Oryzias latipes*): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yesToxicity 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: yesToxicity to algae : 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 compositionToxicity to microorganisms : EC50 (activated sludge): > 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: By analogy with a product of similar composition

Toxicity to soil dwelling organisms : Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

CV0-Z0N-0N WHITE TFA GLD

Page 23

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

Sediment toxicity : Remarks: no data available

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.

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

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

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: 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

SAFETY DATA SHEET



CV0-Z0N-0N WHITE TFA GLD

Page 25

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing :11/28/2016

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

Persistence and degradability

Components:

Diocetyl tin mercaptoacetate:

Biodegradability

: aerobic

Inoculum: activated sludge, domestic

Concentration: 23.7 mg/l

BOD in % of theoretical OD

Result: Not readily biodegradable.

Biodegradation: 1.9 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Remarks: By analogy with a product of similar composition

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

Biodegradability : aerobic
Inoculum: activated sludge, domestic, non-adapted
Concentration: 50 mg/l
BOD in % of theoretical OD
Result: Not readily biodegradable.
Biodegradation: 30 - 40 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

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 White 6:

Biodegradability : Remarks: Not applicable for inorganic compound.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: not tested.

Components:**Dioctyltin mercaptoacetate:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): < 100
Exposure time: 30 d
Concentration: 0.0025 mg/l
Method: OECD Test Guideline 305
GLP: yes
Remarks: By analogy with a product of similar composition

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

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
Remarks: By analogy with a product of similar composition

CV0-Z0N-0N WHITE TFA GLD

Page 27

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

Calcium distearate:

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.

Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: not tested.

Components:**Diocetyl tin mercaptoacetate:**

Distribution among environmental compartments : Remarks: Not applicable

2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:

Distribution among environmental compartments : Remarks: Not applicable

C.I. Pigment White 6:

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

Distribution among environmental compartments : Adsorption/Soil
Medium: water - soil
log Koc: 4.61
Method: Other

Other adverse effects**Product:**

Results of PBT and vPvB assessment : Remarks: No information is available as no chemical safety report (CSR) is required.

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

Components:**Diocetyl tin mercaptoacetate:**

Environmental fate and pathways : not available

CV0-Z0N-0N WHITE TFA GLD

Page 28

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

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.
2-Ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate:		
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 White 6:		
Environmental fate and pathways	:	not available
Results of PBT and vPvB assessment	:	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

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing : 11/28/2016

SECTION 15. REGULATORY INFORMATION**The components of this product are reported in the following inventories:**

DSL : This product contains one or several components listed in the Canadian NDSL.

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 : 11/08/2016

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

SAFETY DATA SHEET



CV0-Z0N-0N WHITE TFA GLD

Page 30

Substance key: 000000645618

Revision Date: 11/08/2016

Version : 2 - 0 / CDN

Date of printing :11/28/2016

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