Safety Data Sheet
Product Identifier

SECTION 1. IDENTIFICATION

Product Identifier	Ziollo RV Roof Lap Sealant
Other Means of Identification	None
Recommended Use	Adhesive/Sealant
Restrictions on Use	None known
Initial Supplier Identifier	Ziollo Inc. #16-1150 Eighth Line, Oakville, Ontario L6H 2R4, CANADA

Emergency Telephone **1-855-451-5820 – 24 hrs a day**

Alberta / Northwestern Territories (PADIS):	1-800-332-1414
British Columbia (DPIC):	1-800-567-8911
Manitoba:	1-855-7POISON (1-855-776-4766)
New Brunswick:	911
Nova Scotia / Prince Edward Island (IWK):	1-800-565-8161
Ontario (OPC):	1-800-268-9017
Québec (CAPQ):	1-800-463-5060
Saskatchewan (PADIS):	1-866-454-1212
Yukon Territory:	(867) 393-8700

CANUTEC 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone

USA - Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case

See also section 4 “First aid measures”.

SECTION 2. HAZARD IDENTIFICATION

Classification of the substance or mixture

Serious eye damage/eye irritation -	Category 2	H319 Causes serious eye irritation
Skin sensitization -	Category 1	H317 May cause an allergic skin reaction
Reproductive toxicity -	Category 1B	H360 May damage fertility or the unborn child

Full text of H statements: see section 16

Signal Word: **Danger**

Hazard Statement(s):

H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child

Precautionary Statement(s):

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Titanium oxide (TiO2)	Titanium dioxide	CAS-No.: 13463-67-7	1 – 5	Carc. 2, H351
Vinyltrimethoxylsilane	Vinyltrimethoxysilane	CAS-No.: 2768-02-7	≥ 1	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation: vapor), H332 Skin Sens. 1, H317
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	CAS-No.: 1760-24-3	1 – 5	Acute Tox. 4 (Inhalation: dust, mist), H332 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Dibutyl bis(2,4-pentanedionate) tin	Dibutyl bis (2,4-pentanedionate) tin	CAS-No.: 22673-19-4	< 1	Repr. 1B, H360 STOT RE 1, H372
quartz, conc respirable crystalline silica≥10%	quartz, conc respirable crystalline silica≥10%	CAS-No.: 14808-60-7	< 1	Muta. 2, H341 Carc. 1A, H350 STOT RE 1, H372

SECTION 4. FIRST-AID MEASURES

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion:	Call a poison center/doctor/physician if you feel unwell.
First-aid measures general:	IF exposed or concerned: Get medical advice/attention.
Symptoms/effects after inhalation:	Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact:	May cause an allergic skin reaction.
Symptoms/effects after eye contact:	Eye irritation.
Symptoms/effects after ingestion:	None under normal conditions.
Chronic symptoms:	May damage fertility or the unborn child.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable Extinguishing Media:	Do not use a heavy water stream.
Specific Hazards Arising from the Chemical:	
Fire hazard:	No fire hazard.
Explosion hazard:	No direct explosion hazard.
Hazardous decomposition products in case of fire:	Toxic fumes may be released.
Firefighting instructions:	Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting:	Do not attempt to act without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures

General measures:	Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

Methods and Materials for Containment and Cleaning up

For containment:	Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible, without risk.
Methods for cleaning up:	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information:	Dispose of materials or solid residues at an authorized site.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Precautions for safe handling:	Ensure good ventilation of the workstation. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid

breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures: Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Additional hazards when processed: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Vinyltrimethoxylsilane (2768-02-7)		
Canada (Ontario) - Occupational Exposure Limits		
Local name		Trimethoxyvinylsilane
OEL TWAEV		60 mg/m³
		10 ppm
Regulatory reference		Ontario Occupational Exposure Limits under Regulation 833

Titanium oxide (TiO2) (13463-67-7)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	10 mg/m³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Québec) - Occupational Exposure Limits	
Local name	Titanium dioxide
VEMP (OEL TWAEV)	10 mg/m³ Td
Notations and remarks	Note 1: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	10 mg/m³ Total dust 3 mg/m³ Respirable fraction
Notations and remarks	IARC group 2B carcinogen

Titanium oxide (TiO2) (13463-67-7)	
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m³ (Finescale particles. R - Repirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024

Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	10 mg/m^3
Notations and remarks	LRT irr
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m^3 (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m^3 (Finescale particles. R - Repirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m^3 (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m^3 (Finescale particles. R - Repirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	10 mg/m^3
OEL STEL	20 mg/m^3
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	10 mg/m^3
OEL STEL	20 mg/m^3
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWAEV	10 mg/m^3

Titanium oxide (TiO2) (13463-67-7)	
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Titanium dioxide
OEL TWA	2.5 mg/m^3 (Finescale particles. R - Repirable particulate matter) 0.2 mg/m^3 (Nanoscale particles. R - Repirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Titanium dioxide

OEL TWA	10 mg/m^3
OEL STEL	20 mg/m^3
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

Appropriate engineering controls: Ensure good ventilation of the workstation.
Environmental exposure controls: Avoid release to the environment.
Personal protective equipment: Wear recommended personal protective equipment.
Hand protection: Protective gloves
Eye protection: Safety glasses with side shields
Skin and body protection: Wear suitable protective clothing
Respiratory protection: [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: White

Odor: There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Almost odourless Characteristic odour Odourless Mild odour Tallow odour Fruity odour Amine-like odour Pleasant odour Alcohol odour Commercial/unpurified substance: irritating/pungent odour.

Odor Threshold: No data available
PH: No data available
Relative evaporation rate (butyl acetate=1) No data available
Relative evaporation rate (ether=1) No data available
Melting Point: Not applicable
Boiling Point: No data available
Flash Point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapor pressure: No data available
Relative vapor density at 20°C: No data available
Relative density: No data available
Solubility: No data available
Partition coefficient n-octanol/water: No data available
Viscosity, kinematic: No data available
Explosion limits: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.
Conditions to avoid: None under recommended storage and handling conditions (see section 7).
Incompatible materials: No additional information available
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time: No additional information available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

Vinyltrimethoxylsilane (2768-02-7)

LD50 oral rat	6899 – 7012 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	7120 mg/kg
LD50 dermal rabbit	3158 – 3760 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal	3259 mg/kg
LC50 Inhalation - Rat	16.8 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
LC50 Inhalation - Rat (Vapours)	16.81 mg/l/4h
ATE CA (oral)	6899 mg/kg body weight
ATE CA (Dermal)	3158 mg/kg body weight
ATE CA (Gases)	4500 ppmV/4h
ATE CA (vapors)	16.8 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)	
LD50 oral rat	2295 mg/kg body weight (EPA OPPTS 870.1100: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (EPA OPPTS 870.1200: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	1.49 – 2.44 mg/l air (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
ATE CA (oral)	2295 mg/kg body weight
ATE CA (vapors)	1.49 mg/l/4h
ATE CA (dust,mist)	1.49 mg/l/4h
Dibutyl bis(2,4-pentanedionate)tin (22673-19-4)	
LD50 oral rat	1864 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))

LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 2000 mg/kg
ATE CA (oral)	1864 mg/kg body weight
Titanium oxide (TiO2) (13463-67-7)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	5000 mg/kg
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	> 3.43 mg/l Source: ECHA
ATE CA (oral)	5000 mg/kg body weight

Skin corrosion/irritation: Not classified

quartz, conc respirable crystalline silica≥10% (14808-60-7)	
pH	6 – 7
Vinyltrimethoxylsilane (2768-02-7)	
pH	No data available in the literature
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)	
pH	10.2 (1 %)
Dibutyl bis(2,4-pentanedionate)tin (22673-19-4)	
pH	No data available in the literature
Titanium oxide (TiO2) (13463-67-7)	
pH	7 (aqueous suspension, 10 %)

Serious eye damage/irritation: Causes serious eye irritation.

quartz, conc respirable crystalline silica≥10% (14808-60-7)	
pH	6 – 7
Vinyltrimethoxylsilane (2768-02-7)	
pH	No data available in the literature
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)	
pH	10.2 (1 %)
Dibutyl bis(2,4-pentanedionate)tin (22673-19-4)	
pH	No data available in the literature
Titanium oxide (TiO2) (13463-67-7)	
pH	7 (aqueous suspension, 10 %)

Respiratory or skin sensitization: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified.

Titanium oxide (TiO2) (13463-67-7)

Additional information	*Not a respirable hazard as contained in this liquid mixture

IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity: May damage fertility or the unborn child.
STOT-single exposure: Not classified

quartz, conc respirable crystalline silica≥10% (14808-60-7)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Vinyltrimethoxylsilane (2768-02-7)	
NOAEL (oral,rat,90 days)	62.5 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)	
STOT-single exposure	May cause respiratory irritation.

1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)

NOAEL (oral, rat,90 days)	≥ 500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (dermal, rat/rabbit,90 days)	≥ 1545 mg/kg body weight Animal: rat
Dibutyl bis(2,4-pentanedionate)tin (22673-19-4)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
quartz, conc respirable crystalline silica≥10% (14808-60-7)	
Viscosity, kinematic	Not applicable (solid)
Vinyltrimethoxylsilane (2768-02-7)	
Viscosity, kinematic	0.7 mm^2/s (20 °C)
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)	
Viscosity, kinematic	3.1 mm^2/s (20 °C, Calculated)
Dibutyl bis(2,4-pentanedionate)tin (22673-19-4)	

Aspiration hazard: Not classified

Symptoms/effects after inhalation: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact: May cause an allergic skin reaction.
Symptoms/effects after eye contact: Eye irritation.
Symptoms/effects after ingestion: None under normal conditions.
Chronic symptoms: May damage fertility or the unborn child.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short term: Not classified

Hazardous to the aquatic environment, long–term: Not classified.

Vinyltrimethoxylsilane (2768-02-7)	
LC50 - Fish [1]	191 mg/l (96 h, Oncorhynchus mykiss, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	169 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	> 89 mg/l (72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	> 957 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	28.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Vinyltrimethoxylsilane (2768-02-7)	
NOEC chronic algae	10 mg/l
LOEC (chronic)	52.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)

LC50 - Fish [1]	597 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	81 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	8.8 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Static system, Fresh water, Experimental value, GLP)
EC50 72h - Algae [1]	126 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	352 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Dibutyl bis(2,4-pentanedionate)tin (22673-19-4)

LC50 - Fish [1]	> 2 mg/l Source: ECHA
EC50 - Crustacea [1]	0.004 mg/l Source: ECHA
EC50 72h - Algae [1]	> 2 mg/l Source: ECHA
Titanium oxide (TiO2) (13463-67-7)	
LC50 - Fish [1]	> 1000 mg/l (Pisces, Fresh water, Literature study)
EC50 - Crustacea [1]	> 1000 mg/l (Invertebrata, Fresh water, Literature study)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)

Persistence and degradability

52RDSL White	
Persistence and degradability	Not rapidly degradable
quartz, conc respirable crystalline silica≥10% (14808-60-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Vinyltrimethoxylsilane (2768-02-7)	
Persistence and degradability	Not readily biodegradable in water.
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)	
Persistence and degradability	Not readily biodegradable in water.
Dibutyl bis(2,4-pentanedionate)tin (22673-19-4)	
Persistence and degradability	Not readily biodegradable in water.
Titanium oxide (TiO2) (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable.

Titanium oxide (TiO2) (13463-67-7)	
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

Bioaccumulative potential

quartz, conc respirable crystalline silica≥10% (14808-60-7)	
Bioaccumulative potential	Bioaccumulation: not applicable.
Vinyltrimethoxylsilane (2768-02-7)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	1.1 (QSAR, KOWWIN, 20 °C)

1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)	
Bioaccumulative potential	Not bioaccumulative.
Partition coefficient n-octanol/water (Log Pow)	-0.3 (QSAR, 20 °C)
Dibutyl bis(2,4-pentanedionate)tin (22673-19-4)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF - Other aquatic organisms [1]	100 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	0.29 (Estimated value, KOWWIN)
Titanium oxide (TiO2) (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.

Mobility in soil

quartz, conc respirable crystalline silica≥10% (14808-60-7)	
Ecology - soil	No (test)data on mobility of the substance available.
Vinyltrimethoxylsilane (2768-02-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for adsorption in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.8 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.5 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Dibutyl bis(2,4-pentanedionate)tin (22673-19-4)	
Surface tension	33.05 mN/m (20 °C, 92 %, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	Low potential for mobility in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.942 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Titanium oxide (TiO2) (13463-67-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.

Other adverse effects

Ozone Not classified

SECTION 13. DISPOSAL CONSIDERATIONS

Regional waste regulation: Disposal must be done according to official regulations.
Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations: Disposal must be done according to official regulations.
Additional information: Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

In accordance with TDG / DOT / IMDG / IATA

UN proper shipping name

Proper Shipping Name (TDG)	Not regulated
Proper Shipping Name (DOT)	Not regulated
Proper Shipping Name (IMDG)	Not regulated
Proper Shipping Name (IATA)	Not regulated

Transport hazard class(es)

TDG
Transport hazard class(es) (TDG) Not regulated
DOT
Transport hazard class(es) (DOT) Not regulated
IMDG
Transport hazard class(es) (IMDG) Not regulated
IATA
Transport hazard class(es) (IATA) Not regulated
Packing group

Packing group (TDG) : Not regulated
Packing group (DOT) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated

Environmental hazards

Other information : No supplementary information available.

SECTION 15. REGULATORY INFORMATION

National regulations

Vinyltrimethoxylsilane (2768-02-7)	Listed on the Canadian DSL (Domestic Substances List)
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)	Listed on the Canadian DSL (Domestic Substances List)
Dibutyl bis(2,4-pentanedionate) tin (22673-19-4)	Listed on the Canadian DSL (Domestic Substances List)
Titanium oxide (TiO2) (13463-67-7)	Listed on the Canadian DSL (Domestic Substances List)

International regulations

Vinyltrimethoxylsilane (2768-02-7)	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- (1760-24-3)	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Dibutyl bis(2,4-pentanedionate)tin (22673-19-4)	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Titanium oxide (TiO2) (13463-67-7)	Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16. OTHER INFORMATION

Full text of hazard classes and H-statements:	
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure

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