

SAFETY DATA SHEET

Ryansil



Section 1. Identification of the material and the supplier

Product: **Ryansil**
Product Item: Sealant & Adhesive
Restriction of Use: Refer to Section 15

New Zealand Supplier: **RYANFIRE Products Ltd**
Address: 11 Ashfield Road
Wairau Valley
Auckland, 0627

Telephone: +64 9 443 0362
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 19 March 2024

Section 2. Hazards Identification

Not classified as hazardous according to Regulation (EC) No. 1272/2008
[CLP]Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II) which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2017.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Titanium Dioxide	1 - 2	13463-67-7
Trimethoxyvinylsilane	<1.5	2768-02-7
3-(trimethoxysilyl)propylamine	<1	13822-56-5
Dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane	<0.3	77-58-7

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: Rinse eyes with water as a precaution.

If on Skin: Wash skin with plenty of water. Seek medical attention if irritation persists.

If Swallowed: Call a poison center or a doctor if you feel unwell.

If Inhaled: Remove person to fresh air and keep comfortable for breathing.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Notes to Doctor: Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable/Non-Combustible
Hazards from combustion products	Toxic fumes may be released.
Suitable Extinguishing media	Water spray. Dry powder. Foam.
Precautions for firefighters and special protective clothing	Use normal firefighting procedures.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Ventilate spillage area. Wear protective gear detailed in Section 8.

Do not allow to enter drains or water courses.

Mechanically recover the product and place in a suitable container for disposal in accordance with the waste regulations (see section 13).

Section 7. Handling and Storage

Precautions for Handling and Storage:

- Ensure good ventilation of the work station.
- Wear personal protective equipment.
- Do not eat, drink or smoke when using this product.
- Always wash hands after handling the product.

Precautions for Storage:

- Store in a well-ventilated place. Keep cool.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Titanium dioxide	[13463-67-7]	-	10	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14TH EDITION.

Engineering Controls

Ensure good ventilation of the work station.

Personal Protection Equipment



Eyes	Wear eye goggles.
Skin	Protective gloves. EN 374. Wear suitable protective clothing.
Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment.

Section 9 Physical and Chemical Properties

Appearance	Solid/Paste
Colour	White, Gray, Black
Odour	Characteristic
Odour Threshold	Not available
pH	7.5 – 8.5
Boiling Point	Not available
Melting Point	Not available
Working Temp	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.37 – 1.43 g/ml
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal temperature and storage conditions.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Conditions to Avoid	None known
Incompatible Materials	None known
Hazardous Decomposition Products	Toxic fumes may be released.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Individual component information:**Acute Toxicity:**

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7)	2071 mg/kg (rat)	>2000mg/kg (rat)	-
Titanium Dioxide (13463-67-7)	>5000 mg/kg (rat)	-	-

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Persistence and degradability	The product is not biodegradable.
Bioaccumulation	The product is not bio accumulating.
Mobility in Soil	Not mobile.
Other adverse effects	None known.

Titanium Dioxide (13463-67-7)

LC50 fish 1	155 mg/l Test organisms (species): other:Japanese Medaka
EC50 Daphnia 1	19.3 mg/l Test organisms (species): Daphnia magna
EC50 Daphnia 2	27.8 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

trimethoxyvinylsilane (2768-02-7)

LC50 fish 1	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio)
EC50 Daphnia 1	168.7 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 957 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

3-(trimethoxysilyl)propylamine (13822-56-5)

LC50 fish 1	> 934 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio)
EC50 Daphnia 1	331 mg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 1000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h algae (2)	603 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7)

EC50 Daphnia 1	1.7 – 3.4 mg/l Test organisms (species): Daphnia magna
EC50 Daphnia 2	< 463 µg/l Test organisms (species): Daphnia magna
EC50 72h algae (1)	> 1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Section 13. Disposal Considerations

Disposal Method: Dispose of according to local regulations

Precautions or methods to avoid: None known.

Section 14 Transport Information

Product Name: Ryansil
Date of SDS: 19 March 2024

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

Section 15 Regulatory Information

Not classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP]Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II) which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Classification) Notice 2017.

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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