

# 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**  
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: 9 August 2024 v2.1

## 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

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

## 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 <sup>3</sup>	ppm	mg/m <sup>3</sup>
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 14<sup>TH</sup> EDITION.

### Engineering Controls

Ensure good ventilation of the work station.

### Personal Protection Equipment



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

**Section 9 Physical and Chemical Properties**

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

**Section 10. Stability and Reactivity**

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

**Section 11 Toxicological Information****Acute Effects:**

<b>Swallowed</b>	Not applicable.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Not applicable.
<b>Skin</b>	Not applicable.

**Chronic Effects:**

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

<b>Persistence and degradability</b>	The product is not biodegradable.
<b>Bioaccumulation</b>	The product is not bio accumulating.
<b>Mobility in Soil</b>	Not mobile.
<b>Other adverse effects</b>	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: 9 August 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 <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	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 14<sup>th</sup> 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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