

SAFETY DATA SHEET

Ryanlite



Section 1. Identification of the material and the supplier

Product: **Ryanlite**
Product Use: Used as a dry install, boarding system for the fire protection of structural steel elements. Also utilized as a thermal break between steel framing and external cladding.
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 v1.1

Section 2. Hazards Identification

This substance is not hazardous according to the EPA Hazardous Substances (Classification) Notice 2020. This product is considered a Manufactured Article.

Section 3. Composition / Information on Hazardous Ingredients

The product contains no substances which at their given concentration are considered to be hazardous to health.
Mineral wool may cause temporary skin and mucous membranes itching due to the mechanical abrasion effect of fibers.

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: DO NOT rub or scratch eyes. Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. If eye irritation persists, get medical advice/attention.
If on Skin: Wash off immediately with plenty of soap and cold water. Use a wash cloth to help remove fibers and dust. DO NOT rub or scrub affected area. Remove contaminated clothing and shoes. Seek medical assistance if needed.
If Swallowed: Rinse mouth with water and drink water to remove fibers from the throat. Seek medical assistance if needed.
If Inhaled: Remove person to fresh air and keep comfortable for breathing. Seek medical assistance if needed.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

Section 5. Fire Fighting Measures

Hazard Type	Un-faced materials are non-combustible. Facings and packaging may be combustible.
Hazards from products	No data available.
Suitable Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and surrounding environment.
Precautions for firefighters and special protective clothing	As in any fire, wear self-contained breathing apparatus (positive) and full protective gear.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Wear PPE as detailed in Section 9. Avoid contact with skin and eyes.

Avoid release to the environment.

Avoid creating dust. Clean contaminated protective equipment in case of direct contact with the product. Sweep up and Dispose as per Section 13.

Section 7. Handling and Storage

Precautions for Handling

- Prevent and/or minimize dust formation. DO NOT breathe dust.
- Wear personal protective equipment in case of direct contact with the product and breathing filter mask.
- Always wash hands after handling the product.

Precautions for Storage

- Keep product in packaging until use to minimize potential dust generation.
- Products should be kept dry and undercover.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Mineral Wool (65997-17-3) Total Dust			10 (Austria)	
Respirable Dust			2 (Austria)	

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

Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits. Dust collection system must be used in transferring operations, cutting or other dust generating processes, such as using power tools. Vacuum clean-up methods should be used.

Personal Protection Equipment:



Eyes	Wear safety glasses with side shields (or goggles).
Skin	Wear protective gloves and long sleeved shirt and pants.
Respiratory	When workers are facing airborne particulates/dust concentrations above the exposure limits, they must use an appropriate certified respirator. A properly fitted disposable P2 type dust respirator or better is recommended.

Section 9 Physical and Chemical Properties

Appearance	Solid - Fibrous
Colour	Grayish Green
Odour	Low odour
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	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	Not available
Water Solubility	Insoluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity - Dynamic	Not available.
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	When stone wool insulation is heated the first time to a temperature above 200°C, the binder starts to break down. Typical thermal breakdown products are odorous, irritating to upper mucous membranes and consist of various hydrocarbons, ammonia, aldehydes, mono isocyanates, and nitrogen components such as amines.
Possibility of hazardous reactions	No data available.
Conditions to Avoid	Customers wishing to take extra precautions when heating up the product for the first time are advised to provide sufficient ventilation and avoid staying close to the heated construction. And if they deem necessary according own risk assessment, even to use personal protective equipment (such as fresh-air respirators) for personnel close to the heated construction, for the initial period.
Incompatible Materials	No data available.
Hazardous Decomposition Products	The decomposition rate is dependent on temperature, time and history of thermal exposure, product density and thickness. At each temperature exposure maximum, the decomposition rate is highest in the beginning. Thereafter, with continued exposure at the peak temperature, the emissions are leveling out. After reduction of the emission level at a peak temperature, no further emissions are expected at a later exposure to the same temperature.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Not triggered however ingestion may cause transient irritation of throat, stomach and gastrointestinal tract.
Dermal	Not applicable.
Inhalation	Not triggered however inhalation may cause coughing, nose and throat irritation, and sneezing. High exposures may cause difficulty breathing, congestion, and chest tightness.
Eye	Not triggered however dusts may cause mechanical irritation to eyes.
Skin	Not triggered however dusts may cause mechanical irritation to skin.

Chronic Effects:

Carcinogenicity	Not applicable. In October 2001, the International Agency for Research on Cancer (IARC) classified mineral wool (insulation glass wool, rock(stone) wool and slag wool) as Group 3, "not classifiable as to its carcinogenicity to humans." The 2001 decision was based on human studies and animal research that have not shown an association between inhalation exposure to dust from mineral wool and the development of respiratory disease.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

This product is not expected to be hazardous for the environment.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method: Dispose of according to Local regulations

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020.

Section 15 Regulatory Information

This substance is not hazardous according to the EPA Hazardous Substances (Classification) Notice 2020. This product is considered a Manufactured Article.

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

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

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