

SAFETY DATA SHEET

Ryanfire Penoflex



Section 1. Identification of the material and the supplier

Product: **Penoflex**
Product Use: A moisture curing elastomeric sealant/adhesive for weather proofing and bonding.
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 hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

EPA Approval No: Surface Coatings and Colourants (subsidiary) – HSR002670

Pictograms



Signal Word: **Warning**

| GHS Classification and Category | Hazard Code | Hazard Statement |
|---------------------------------|-------------|--------------------------------------|
| Skin sensitisation Cat. 1 | H317 | May cause an allergic skin reaction. |

| Prevention Code | Prevention Statement |
|-----------------|--|
| P103 | Read carefully and follow all instructions. |
| P261 | Avoid breathing fumes or vapours. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective clothing [as detailed in SDS Section 8]. |

| Response Code | Response Statement |
|---------------|--|
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash before reuse. |

| Storage Code | Storage Statement |
|----------------|-------------------|
| None allocated | |

| Disposal Code | Disposal Statement |
|---------------|--|
| P501 | Dispose of according to Local Regulations or Authorities |

Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|--|-------|-------------|
| Trimethoxy(vinyl)silane | 0.1-3 | 2768-02-7 |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiyl) sebacate | <1 | 41556-26-7 |
| Methyl(1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate | | 82919-37-7 |
| Dioctyltin oxide | <1 | 870-08-6 |
| tetraethylorthosilicate | <1 | 78-10-4 |

Section 4. First Aid Measures

Routes of Exposure:

| | |
|--------------|---|
| If in Eyes | Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes holding eyelids apart, and seek medical advice. |
| If on Skin | Take off contaminated clothing and wash before reuse. Wash skin thoroughly with soap and water or a recognised skin cleaner. DO NOT USE SOLVENT OR THINNERS. Seek medical attention if irritation persists. |
| If Swallowed | If accidentally swallowed wash mouth with water and give large volumes of water to drink. DO NOT induce vomiting. Seek medical attention. |
| If Inhaled | Remove to fresh air. If symptoms persist, or if in doubt, seek medical attention. |

Most important symptoms and effects, both acute and delayed

Symptoms:

| | |
|-------|---|
| Skin: | May cause an allergic skin reaction. Prolonged contact may cause irritation and dry skin. |
| Eyes: | May affect vision. If irritation persists, seek medical advice. |

Section 5. Fire Fighting Measures

| | |
|---|---|
| Hazard Type | Non Flammable. |
| Hazards from products | Organic compound so black smoke and carbon monoxide and carbon dioxide will be released in a fire. |
| Suitable Extinguishing media | Foam, CO2, powder, water spray/mist. |
| Precautions for firefighters and special protective clothing | Wear self-contained breathing apparatus. Do not allow run off from firefighting to enter drains or water courses. |
| HAZCHEM CODE | None Allocated |

Section 6. Accidental Release Measures

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

Do not allow to enter drains or water courses.

Contain and collect spillages and place in a suitable container for disposal in accordance with the waste regulations (see section 13). Take action to avoid static electricity discharge.

Section 7. Handling and Storage

Precautions for Handling

- Read carefully and follow all instructions.
- Avoid breathing fumes or vapours.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective clothing [as detailed in SDS Section 8].
- Avoid contact with skin and eyes.
- Smoking, eating and drinking should be prohibited during use.
- Keep away from sources of ignition.
- Take precautions to avoid static electricity discharge.

Precautions for Storage

- Keep containers closed when not in use.
- Store between 5°C and 25°C in a dry well-ventilated place away from sources of heat.
- Protect from frost.
- Keep out of reach of children.
- Store separately from oxidising agents and strongly acidic materials.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | | TWA | | STEL | |
|----------------|-----------|-----|-------------------|------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Ethyl silicate | [78-10-4] | 10 | 85 | - | - |

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 adequate ventilation during application and drying.

Personal Protection Equipment:



| | |
|--------------------|--|
| Eyes | Eye protection designed to protect against liquid splashes should be worn. Equipment should conform to EN166 |
| Skin | Wear suitable protective clothing and plastic or rubber gloves. |
| Respiratory | If ventilation is insufficient suitable respiratory protective equipment must be worn. |
| Hygiene | When using do not eat drink or smoke. Wash hands before eating, drinking, smoking or using the toilet. |

Section 9 Physical and Chemical Properties

| | |
|------------------------|---------------|
| Appearance | Viscous Paste |
| Colour | Not available |
| Odour | Not available |
| 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 flammable |
| Upper and Lower Explosive Limits | Not available |
| Vapour Pressure | Not available |
| Vapour Density | Not available |
| Specific Gravity | Translucent - 1.0-1.05 @ 20°C Colours - 1.45 - 1.50 @20°C |
| Water Solubility | Insoluble |
| Partition Coefficient: | Not available |
| Auto-ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Viscosity - Dynamic | Not available. |
| Particle Characteristics | Not available |
| VOC (calculated) | Trans:- 22g/ltr Colours: - 35g/ltr |

Section 10. Stability and Reactivity

| | |
|---|---|
| Stability of Substance | Stable under normal temperature and storage conditions. |
| Possibility of hazardous reactions | None known. |
| Conditions to Avoid | Strong acids, bases and oxidising materials. |
| Incompatible Materials | Oxidising agents and strongly acidic materials. |
| Hazardous Decomposition Products | No data available. |

Section 11 Toxicological Information

Acute Effects:

| | |
|-------------------|--|
| Swallowed | Not triggered however ingestion may cause discomfort, pain and nausea. |
| Dermal | Not applicable. |
| Inhalation | Not applicable. |
| Eye | Not triggered however there is a risk of damage to eyes. |
| Skin | May cause an allergic skin irritation. |

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. |

Section 12. Ecotoxicological Information

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

| | |
|--------------------------------------|--|
| Persistence and degradability | Biodegradation only slightly biodegradeable. |
| 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 hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

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| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity |
|---|------------------------------------|
| Certified Handler | Not required |
| Location Certificate | Not required |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | Not required |
| Emergency Response Plan | 1000kg |
| Secondary Containment | 1000kg |
| Restriction of Use | Only use for the intended purpose. |

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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