MINERAL WOOL PANEL

COMPANY DETAILS

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1. Product Identification

Product name: Mineral Wool Panel
Recommended use: Thermal and Acoustic Insulation, fire protection insulation

2. Composition

Chemical Name	%	CAS Number
Fibre Biosoluble Minerals	95%	-
Heat cured resin	<5%	25104-55-6
Mineral oil (solvent refined)	<2%	-

Other Properties: The fibres and particles are amorphous (non-crystalline). The resin and solvent refined mineral oils bind the fibres and particles together minimize the release of dust. The heat cured resin is stable and will remain intact for the life of the products under normal atmospheric conditions. This product in non-combustible with an A1 Classification.

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MINERAL WOOL PANEL

3. Hazardous Identification of Product.

Main Hazard	:	None
Flammability	:	Nonflammable, non-combustible.
Chemical hazards	:	None
Biological hazards	:	None
Reproductive hazards	:	None
Eye effects	:	Possible irritation from dust particles
Health effects – skin absorption	:	None
Health effects – ingestion	:	None
Health effects – inhalation	:	Excessive inhalation over long period may cause harmful irritation
Carcinogenicity	:	Non-carcinogenic
Mutagenicity	:	n/a
Neurotoxicity	:	n/a

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MINERAL WOOL PANEL

4. First Aid Measures

Swallowed	:	Rinse the lips and mouth with water, give water to drink and seek medical attention.
Eye:	:	Flush with copious amounts of water. If symptoms persist, seek medical attention.
Skin:	:	Sluice with water and if itching persists, seek medical attention.
Inhaled	:	Remove to fresh air. If symptoms persist seek medical attention.

Notes to Doctor

This product can be slightly irritating to the skin but is not to produce any chronic health effects. Treatment should be directed towards removing the source of irritation with symptomatic treatment as necessary. Any other symptoms and signs of ill-health are likely to be due to other causes.

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MINERAL WOOL PANEL

5. Fire Fighting Measures

Specific Hazards	:	Non flammable. No fire or explosion hazard exists.
Extinguishing Media	:	Use water-fog to cool intact containers and nearby storage areas.

Fire Fighting Procedures: If product is present in a fire, some smoke and toxic gases may be evolved. Evacuate are and contact emergency services. Remain upwind and notify those downwind of hazards. Wear protective equipment including self-contained breathing apparatus when combating fire.

Hazardous Decomposition Products: Resin binders and facing may decompose, smolder or burn in fire situations or if heated over 300°C.

6. Accidental Release Measures

If product is torn or loose, reseal and minimize fibre release. Personnel directly Involved in clean up should wear protective equipment as described in Section 8 to prevent skin and eye irritation. Clean area so as to avoid dispersion of any irritant fibres using wet sweep methods or approved micro-filter equipped vacuum cleaner. Re-use where possible or place in a sealable plastic bag for disposal according to local authority guidelines.

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MINERAL WOOL PANEL

7. Handling and Storage

Handling: Handling, installation or removing the product may result in some dust and airborne fibre; minimize eye or skin contact and inhalation during handling; installation and removal. Observe good personal hygiene including washing hands before eating. Remove protective equipment before entering eating areas. Mineral wool insulation, once installed, does not release dust or fibres, and does not cause health effects.

Storage: Store in sealed container in cool, dry area, removed from foodstuffs. Ensure packages are adequately labeled. Protect from physical damage and seal when not in use. Avoid packaging being stored under UV light (direct sunlight) for long periods.

8. Exposure Controls / Personal Protection

Exposure Standards: For airborne respirable fibres 0.5 f/ml time-weighted average (TWA) Standard is recommended and a standard of 2.0 mg/m³ time-weighted average for non-respirable fibres. Airborne respirable fibres levels will rarely exceed 0.5 f/ml in user applications. During most applications and installation of this product, no special ventilation will be required. However, if dusty, or in confined spaces, local exhaust ventilation should be considered. For fixed manufacturing situations using this product the need for ventilation should be evaluated and, where high fibre levels are likely, ventilation systems should be considered. Work practices should aim to minimize the release of, and exposure to, fibres and / or dust.
Hand tools that generate the least amount of dust and fibres are recommended.
If power tools are used directly on the product, appropriate dust collection systems are recommended. Work areas should be cleaned regularly and vacuuming or wet sweeping is recommended.

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MINERAL WOOL PANEL

8. Personal Protection

Eye Protection: When handling mineral wool insulation product, particularly handling it overhead or in enclosed or poorly ventilated areas such as ceiling spaces or risers, eye contact with dust or fibre can be avoided by wearing dust resistant goggles confirming to safety standard.

Skin Protection: Direct skin contact can be minimized by wearing normal work clothing, a cap or hat, and standard duty gloves. Work clothes should be washed regularly and separately from other clothes.

Respiratory Protection: When handling insulation, particularly during work in enclosed or poorly ventilated areas, respirator is recommended.

Personal Hygiene: Washing of exposed skin with soap and water at the end of a shift or as required is recommended.

9. Physical and Chemical Properties

Appearance	A matt of brown fibrous material resembling wool. It is supplied in different shapes and sizes wrapped in plastic. It may be rigid or flexible. Facings such as aluminum foil, calico, wire and synthetic tissues are applied to meet specific purposed.
Odour	Usually odourless but may have faint amine odour.
pH	Not applicable
Boiling Point	Not applicable
Melting Point	>1000°C
Vapour Pressure	Not applicable
Specific Gravity	Variable
Solubility in water	Negligible
Evaporation rate	Not applicable
Vapour density	Not applicable
Percent volatiles	Very low, 1%
Flash point	Not applicable
Decomposition temperature	>300°C
Upper / lower explosive limits	Not applicable

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MINERAL WOOL PANEL

10. Stability and Reactivity

Chemical Stability: : No reported incompatibilities, however resin binders may be attacked by acidic, alkaline or solvent based substances. The cured resin is stable and will remain intact for the life of the product under normal atmospheric conditions.

11. Toxicological Information

Acute Effects: Products designed for high temperature applications (above177°C) may release gases (C02, formaldehyde, amines) from the resin bonding which are irritating to the eyes, nose and throat during initial heat-up. In confined or poorly ventilated areas, use air supplied respirators during the first heat-up cycle.

Swallowed: Unlikely under normal conditions of use but would result in irritation of the lips, mouth, stomach.

Eye: Mineral wool insulation dust, if it gets into the eyes, may cause eye discomfort resulting in watering and redness.

Skin: Handling mineral wool insulation and its dust may irritate the skin resulting in itching and occasionally a red rash. The rash is not allergic and usually disappears quickly.

Inhaled: The dust may cause discomfort of the nose, throat and respiratory tract, especially in those suffering from upper respiratory or chest complaints such as hay fever, asthma or bronchitis.

Chronic: There are no known long term health effect. The product has been tested in laboratory studies and shown to be bio-soluble. Bio-soluble means that any fibres inhaled into the lungs dissolve in body fluids and are then cleared from the lungs. Fibres would comply with the short term bio-persistence test and fulfil the requirements of international authorities on bi-solubility.

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MINERAL WOOL PANEL

12. Ecological Information

Ecotoxicity: Neither the raw materials used nor the finished product contain any ozone depleting chemicals. This product is not classified as a hazardous air pollutant. Mineral wool is bio-soluble and in most ecosystems it would be expected to solubilize over a period of weeks to months. Binder-coated mineral wool is hydrophobic and no adverse environmental effects would be expected if accidentally released in the water or soil. No harm to fish or wildlife would be caused by this product.

13. Disposal Considerations

Placed in sealed, appropriately plastic bags and dispose of in accordance with local authority guidelines. Clean area with micro equipped vacuum or wet sweep. Any waste material should be cleaned up and disposed of in accordance with local authority guidelines. Use protective equipment as described in Section 8 when handling uncontained material.

14. Transport Information

Mineral Wool Panels are not regulated as dangerous goods. No special transport requirements are necessary.

15. Regulatory Information

Classification: Classified as non-hazardous according to ASCC/NOHSC criteria. Classified as non-dangerous goods according to criteria of International Dangerous Goods Code.

Poisons Schedule: Non-allocated.

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16. Other Information

Revision history:

Previous issue	October 2010
Revision 2	July 2016
Revision 3	May 2026

Key Abbreviations: ASCC = Australian Safety and Compensation Council
NOHSC = National Occupational Health and Safety Commission

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