PT. NICHIAS ROCKWOOL INDONESIA
K A W A S A N I N D U S T R I K U J A N G
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JAWA BARAT - INDONESIA

PT NICHIAS MATERIAL SAFETY DATA SHEET
TOMBO MG ROCKWOOL INSUALTION PRODUCT

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME:	MG Felt, MG Mighty Cover and MG Wired Blanket
RECOMMENDED USE:	Used in commercial building, warehouses, homes, industrial and petrochemical plants, motor vehicles, trains, power stations, ships as thermal, acoustic and fire protection and energy conservation.
APPLICABLE IN:	Australia and New Zealand
MANUFACTURER:	PT Nichias Rockwool Indonesia Section in charge: Quality Control Section
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EMERGENCY NUMBER:	000 Fire Brigade and Police (Australia only)
POISONS INFORMATION CENTRE:	13 11 26 (Australia only)

Tombo MG Rockwool Insulation products manufactured by Pt Nichias Rockwool Indonesia and distributed by Thermacon Insulation Pty Ltd are classified as non-hazardous, a material safety data sheet (MSDS) is not strictly required under Australian regulations. The MSDS is issued by Thermacon Insulation for the information of users, installers and the community. It has been formatted in accordance with the code on preparation of a material safety data sheet 2003 safe work Australia (SWA – formerly ASCC / NOHSC).

The information in this MSDS must not be altered deleted or added to. The supplier / distributor will not accept any responsibility for any changes made to its MSDS by any person or organization. The supplier / distributor will issue a new MSDS when there is a change in product specifications and / or ASCC standards, codes, guidelines or regulations.

SECTION 2: HAZARD IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE:

Classified as non-hazardous according to the criteria of the Australian Safety and Compensation Council ASCC (formerly NOHSC). Approved criteria for classifying hazardous substances (NOHSC:1008) 3rd Edition. Tombo MG Rockwool is classified as non-dangerous goods according to the Australian Code for the transport of dangerous goods by road and rail.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	Proportion	CAS Number
Mineral Rockwool Fibre (Amorphous, non-crystalline, bio-soluble – Note Q applicable)	>85%	-
Heat-cured resin (Fibre bonding agent)	>15%	-

SECTION 4: FIRST AID MEASURES

Swallowed:	Rinse lips and mouth with water
Eyes:	Flush with clean water. If symptoms persist seek medical attention
Skin:	Rinse off with water, preferably running. If itch or discomfort continues seek medical attention
Inhaled:	Remove to fresh air. If symptoms persist seek medical attention
Advice to Doctor:	Any symptoms and signs of ill health are likely to be due to other causes. Can be slightly itchy on prolonged contact with skin. Does not produce any acute or chronic health effects. Treatment should be directed toward cleansing the skin and symptomatic treatment as necessary

SECTION 5: FIRE FIGHTING MEASURES

Flammability:	This product is non-flammable.
Suitable Extinguishing Media:	As needed for surrounding fire conditions. Any extinguishing media may be used as required. Waterfog may be used to cool intact containers and nearby storage areas.
Hazards From Combustion Products:	Tombo MG Rockwool / Insulation is non-flammable, but the plastic wrapping, resin binder, may decompose, smolder or burn in a fire or when heated above 250^{o}c. If product is present in a fire, toxic gasses or smoke may be evolved depending on surrounding fire conditions.
Fire Fighting Procedures:	As needed for surrounding fire conditions. If required, evacuate area and contact emergency services; remain upwind and notify those down wind of fire hazard; and wear protective equipment including self contained breathing apparatus (SCBA).
HAZCHEM Code:	None allocated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment Procedure:	If product is torn or loose, cover or reseal to minimize fibre release. Reuse where possible or place in a sealable plastic bag for disposal according to local authority guidelines.
Clean Up Procedure:	Personnel directly involved in clean up of loose material should wear personal protective equipment as described in Section 8. Clean area so as to avoid dispersion of loose material or fibres using wet sweep methods or vacuum cleaner.

SECTION 7: HANDLING AND STORAGE

Handling:	These are safe in use. Once installed, the product does not release dust or fibres. Handling, installing or removing the product may result in some dust and airborne fibre. Minimise eye or skin contact and inhalation during handling installation and removal (see Section 8). Observe good personal hygiene, including washing hands before eating. Remove personal protective equipment before entering eating areas.
Storage:	Store in sealed container in cool, dry area, removed from foodstuffs. Ensure packages are adequately labeled protected from physical damage, and sealed when not in use. Avoid packaging being stored under UV light (direct sunlight) for long periods.
Incompatibilities:	None.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:	None allocated for Tombo MG Rockwool Insulation products, which may be regarded as nuisance dusts. The supplier / distributor recommends following the National Occupational Exposure Standard (NES) Australian Safety and Compensation Council ASCC (formerly NOHSC) general guide to keep all occupational exposures to dust and other atmospheric containments to as low a level as workable. For non-hazardous nuisance dusts: 2.0mg/m^3 TWA for inspirable dusts and / or 10mg/m^3 TWA for total dust (of any type or particle size).
Notes on Exposure Standards:	Exposure standard (TWA) is the time weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire life. According to current knowledge this concentration should not impair the health or cause undue discomfort to nearly all workers.
Biological Limit Value:	N/A
ENGINEERING CONTROLS	
Ventilation:	During most installations no special ventilation will be required. However, if installing in dusty or poorly ventilated areas, or during the first heat-up cycle in high temperature industrial application, local exhaust ventilation should be considered. Work practices should aim to minimise the release of and exposure to fibres and dust. Hand tools generate the lease amount of dust and fibres. If power tools are used directly on the product appropriate dust collection systems are recommended.
Special Consideration for Repair and/or Maintenance of Contaminated Equipment:	Work areas should be cleaned regularly and vacuuming or wet sweeping is suggested. Use of personal protective equipment as outlined below is recommended during work in areas or on equipment where this product has been installed.
Personal Protection Equipment	
Personal Hygiene:	Personal hygiene; washing of exposed skin with soap and water at the end of a shift or as required is recommended as a comfort measure
Skin Protection:	Direct skin contact can be minimized by wearing long-sleeved shirts and trousers, a hat and standard duty gloves conforming to Australian Standard AS2161. Work clothes should be washed regularly and separately from other clothes.
Eye Protection:	When handling these products especially overhead or in enclosed or poorly ventilated areas such as ceiling spaces, eye contact with dust or fibres can be avoided by wearing ventilated non-fogging dust resistant goggles conforming to Australian and New Zealand AS/NZS 1336.

Respiratory Protection:	A class P1, P2, N95 respirator is, in all but the most dusty or poorly ventilated locations, sufficient to minimise irritation of the respiratory tract when installing this product.
Smoking and Other Dusts:	Inhalation of airborne particles from other sources, including cigarette smoke, may increase the risk of lung disease. Thermacon Insulation recommends that all work and storage areas should be smoke free zones and other airborne contaminants be kept to a minimum.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	The material presents as a green/yellow/brown fibrous matt. It is supplied in pre-formed Pipe Section, Flexible Blanket, Rigid Slab in various sizes, densities and thicknesses. The products are wrapped in plastic and may have Foil Facing, Black Scrim Facing, White Scrim Facing and with or without Wire Mesh.
Odour:	Usually odourless but may have faint amine odour.
pH, at Stated Concentration:	N/A
Vapour Pressure / Density:	N/A
Boiling Point / range (^{o}c)	N/A
Melting Point (^{o}c)	Over 800^{o}c
Solubility in Water:	Insoluble
Decomposition Temperature:	Binder decomposition 250^{o}c
VOC:	Low
Flash Point:	N/A
Flash Point Method:	N/A
Flammable (Explosive) Limit Upper:	N/A
Flammable (Explosive) Limit Lower:	N/A
Auto – Ignition Temperature:	N/A

SECTION 10: Stability and Reactivity

Chemical Stability:	Stable
Incompatible Materials:	None identified
Hazardous Reactions / Decomposition Products:	None identified

Section 11: Toxicological Information

Toxicology data: The fibre make up of these products are classified by Safe Work Australia as Mineral Wool.

In accord with EU ATP 31 (2009) the fibres are not classified as irritant, and being bio-soluble they are not regarded as carcinogenic.

Tombo MG Rockwool Insulation products are bio-soluble, which means that any fibres inhaled into the lungs dissolve in body fluids and are cleared from the lungs. They are categoristed as having low biopersistence eg. After inhalation, as specified under note Q as listed in the Australian Hazardous Substances Information System, and in the Australian approved criteria document. Fibres from these products comply with the short-term bio-persistence test and fulfill the requirements of international and Australian authorities on bio-solubility.

International authorities and Safe Work Australia do not classify Mineral Wool fibres with biosolubility as carcinogenic.

Health Effects: Acute (Short Term)

Swallowed:	Unlikely in normal use. If attempted to be swallowed may result in gagging, vomiting, temporary itching of lips, throat, and mouth.
Eyes:	Can cause eye discomfort, watering and redness.
Skin:	Handling may result in temporary itching of the skin. This is not an allergy and normally quickly disappears.
Inhaled:	Unprotected exposure to high levels of dust during installation and removal may cause discomfort of nose, throat, lower and upper respiratory tract. In particular to persons suffering from asthma, bronchitis, hay fever and other such chest complaints.

Note: In high temperature applications above 250^{o}c the binder in the product which is incombustible may generate steam and off gas. During this period suitable protective equipments (section 8) should be worn. Unprotected, some irritation to the eyes, nose, throat and respiratory tract may occur.

Health Effects: Chronic (Long Term)

There are no known long term effects.

Section 12: Ecological Information

Eco-Toxicity:	This product is not classified as a hazardous air pollutant. It is suggested that based upon estimates that these products are no toxic to birds, insects, fish or other organisms in the environment.
Persistence and Degradability:	Tombo MG Rockwool Insulation is bio-soluble and in most ecosystems it would be expected to solubilise over a period of weeks to months. Binder coated Rockwool in hydrophic and no adverse effects would be expected if released accidentally in water or soil.
Ozone Depleting Potential:	Ozone depletion potential 0.

Section 13: Disposal Considerations

Place material in plastic bags and seal for disposal according with local authority guidelines. Bags should be labeled non-hazardous insulation wool or as general building waste. Department of Environment and Climate Change NSW classifies Rockwool Insulation as general solid waste and local authorities will advise handling arrangements at the disposal sites.

Section 14: Transport Information

Transport Requirements:	Tombo MG Rockwool products are not classified as dangerous goods and have no special transport requirements.		
UN Number:	N/A	**Subsidiary Risk:**	N/A
DG Class:	N/A	**Packaging Group:**	N/A
HAZCHEM Code:	N/A		

Section 15: Regulatory Information

Poisons Schedule:	N/A

Section 16: Further Information

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END MSDS.