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SAFETY DATA SHEET (SDS)

RIGID SILICONE MICA SHEET – PHLOGOPITE TYPE

Prepared in accordance with the Globally Harmonized System (GHS) and Safe Work Australia requirements.

SECTION 1: IDENTIFICATION

- **Product Name:** Rigid Silicone Mica Sheet – Phlogopite Type
- **Recommended Use:** High-temperature electrical and thermal insulation in switchboards, transformers, motors, furnaces, and industrial electrical assemblies.
- **Details:**
    - **Company:** MISCO Australia
    - **Address:** 89 -91 Licola Crescent, Dandenong South, VIC 3175
    - **Telephone Number:** 03 9706 5185
    - **Emergency Contact Number:** 000
    - **Poisons Information Centre**: 13 11 26 (Australia)
- **SDS Number:** MISCO – SDS - 0016
- **SDS Version:** 1.0

SECTION 2: HAZARD(S) IDENTIFICATION

- **GHS Classification:**

Component classifications have been reviewed with reference to the Safe Work Australia Hazardous Chemical Information System (HCIS).

This product is NOT classified as hazardous under the GHS or WHS Regulations.
Not classified as Dangerous Goods under the ADG Code.

GHS Label Elements:

- **Signal Word:** None
- **Hazard Pictograms:** None required.

- **Hazard Statements:** Not hazardous as supplied.
- **Precautionary Statements:**
    - P261: Avoid breathing dust.
    - P280: Wear protective gloves/eye protection during machining.
    - P285: In case of inadequate ventilation, wear respiratory protection.

Other Hazards:

- Machining (cutting, drilling, sanding) may generate non-toxic mineral particulate dust.
- Dust may mechanically irritate eyes, skin, or respiratory system.
- No combustion or chemical hazard.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Rigid, non-hazardous composite article.

Component	CAS Number	Proportion	Classification
Phlogopite Mica Paper	12001-26-2	90–95%	Non-hazardous mineral
Silicone Resin (cured)	Polymer (non-regulated)	5–10%	Non-hazardous

Impurities:
No asbestos, crystalline silica fibres, halogens, PFAS, heavy metals, or regulated additives.

Exact percentages vary slightly due to manufacturing processes; variations do not affect hazard classification.

Note: The exact proportion of ingredients may vary slightly due to the nature of the manufacturing process.

SECTION 4: FIRST AID MEASURES

Description of Necessary First Aid Measures

Inhalation:

- Move the person to fresh air and keep them at rest in a position comfortable for breathing.
- Dust generated during machining may cause temporary mechanical irritation of the nose, throat, or upper respiratory tract.

- Seek medical attention if coughing, breathing difficulty, or throat irritation persists.

Skin Contact:

- Wash exposed skin with soap and water.
- Remove contaminated clothing and shake or wash off dust before reuse.
- Mechanical irritation may occur, but no chemical burns or toxicity are expected.
- Seek medical advice if redness or persistent irritation develops.

Eye Contact:

- Rinse cautiously with clean water for several minutes, holding eyelids open.
- Remove contact lenses if present and easy to do so; continue rinsing.
- Dust particles may cause temporary irritation, redness, or watering.
- Seek medical attention if symptoms persist after rinsing.

Ingestion:

- Rinse mouth with water.
- No significant toxicity is expected due to the inert nature of the material.
- Do NOT induce vomiting unless advised by a medical professional.
- If discomfort occurs or large quantities are ingested, seek medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

- **Acute:**
    - Mechanical irritation of the eyes, skin, or respiratory tract due to dust.
    - Temporary scratchy throat, coughing, or mild eye discomfort.
- **Delayed or Chronic:**
    - No known long-term health effects associated with normal use.
    - Prolonged exposure to nuisance dust may aggravate pre-existing respiratory conditions.

Indication of Immediate Medical Attention and Special Treatment Needed

- Treat symptomatically.
- No specific antidote or special treatment required.

- Material is non-toxic and chemically inert.
- Mechanical dust irritation is the only expected health effect.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media:

- This product is non-combustible.
- Use extinguishing media appropriate for surrounding materials, such as:
    - Water spray or fog
    - Dry chemical powder
    - Carbon dioxide (CO_2)
    - Foam

Unsuitable Extinguishing Media:

- None known.
- Apply extinguishing methods based on the nature of the surrounding fire.

Specific Hazards Arising from the Material:

- The product will not burn and does not contribute to fire load.
- Under extreme temperatures (>1000 °C), the silicone binder may decompose, producing:
    - Small amounts of inert mineral particulates
    - Trace siloxane decomposition products (non-toxic, non-corrosive)
- No release of halogens, toxic gases, corrosive fumes, or black smoke.
- Material does not undergo explosive decomposition.

Firefighting Advice for Firefighters:

- Standard structural firefighting PPE is adequate.
- No special chemical protective clothing required.

- Use self-contained breathing apparatus (SCBA) only if smoke from surrounding materials is present.
- Prevent runoff from surrounding fires entering drains or waterways if contaminated by other materials.

Hazchem Code:

- Not applicable — material is not a Dangerous Good.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

- No acute hazards exist for the material in sheet form.
- Avoid generating airborne dust when handling off-cuts or broken pieces.
- Wear appropriate PPE if dust is present:
    - P2 or N95 respirator
    - Safety glasses or goggles
    - Gloves to prevent cuts from sharp edges.
- Ensure adequate ventilation during clean-up if fine particulates are present.
- Remove ignition sources only if surrounding materials are flammable (the product itself is non-combustible).

Environmental Precautions

- Material is chemically inert, non-toxic, and poses no risk to soil, water, or ecosystems.
- Prevent uncontrolled spread of large quantities of dust solely to maintain workplace cleanliness.
- No special environmental containment is required.

Methods and Materials for Containment and Clean-Up

For Solid Sheets or Large Pieces:

- Collect manually or mechanically.
- Avoid breakage to minimise dust generation.
- Store reusable pieces appropriately or dispose of as non-hazardous solid waste.

For Dust or Small Off-Cuts Generated During Machining:

- Use industrial vacuum systems or wet sweeping to avoid creating airborne dust.
- Avoid dry sweeping, compressed air, or actions that disperse dust.
- Place collected dust in sealed bags for disposal.

For Spills in Processing Areas:

- Implement housekeeping procedures to prevent dust accumulation on floors, machinery, or electrical panels.
- Maintain LEV (Local Exhaust Ventilation) and ensure extraction filters are cleaned or replaced per maintenance schedules.

Reference to Other SDS Sections

- ***Section 8:*** *PPE and exposure control recommendations*
- ***Section 13:*** *Disposal considerations*

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

- Handle sheets carefully to avoid edge-related cuts or accidental breakage.
- Avoid generating airborne dust during cutting, drilling, routing, sanding, or sawing.
- Use local exhaust ventilation (LEV) and dust extraction when machining the product.
- Wear appropriate PPE (gloves, safety glasses, and a P2/N95 respirator during machining).
- Avoid breathing dust; maintain clean and dust-free work areas.
- Do not use compressed air to clean surfaces as it may create airborne particulate.
- Ensure material is fully supported when lifted or carried to prevent bending stress, particularly in thinner gauges.
- Keep product free from oils, solvents, or contaminants that may affect machining performance.
- Follow machinery lockout/tagout procedures during cutting or processing operations.

Conditions for Safe Storage

- Store in a dry, clean, and well-ventilated area.
- Keep sheets flat and fully supported to prevent warping or bowing.
- Avoid exposure to excessive moisture or prolonged high humidity.
- Protect from mechanical damage, impact, or abrasion.
- Keep away from strong alkalis and corrosive chemicals.
- Store away from direct sunlight, extreme temperatures, or open flame (material is non-combustible but heat may affect the silicone binder).
- Maintain storage areas free from dust accumulation and ensure floors and racking are clean.
- Rotate stock on a first-in, first-out (FIFO) basis to ensure product integrity.

Incompatibilities in Storage

- Avoid storing in direct contact with strong alkalis, which may slowly degrade mica structure over time.
- Keep segregated from abrasive materials that may scratch or damage sheet surfaces.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Limits (Safe Work Australia)

There is no specific exposure standard for rigid mica sheets.
Apply the following general workplace dust limits:

Substance / Dust Type	Exposure Standard (TWA)	Notes
Inhalable Dust (Nuisance Dust)	10 mg/m³	Applicable during machining
Respirable Dust	3 mg/m³	Conservative guideline for fine particulates

These values apply only to airborne particulates generated during processing or machining, not to the product in sheet form.

Appropriate Engineering Controls

Local Exhaust Ventilation (LEV)

- Use LEV or dust extraction on all cutting, drilling, sawing, sanding, or CNC machining equipment to minimise airborne dust.
- HEPA or high-efficiency filtration is recommended.

General Ventilation

- Provide adequate mechanical or natural ventilation in machining areas.
- Ensure airflow prevents dust accumulation on floors, machinery, or electrical equipment.

Administrative Controls

- Implement workplace housekeeping programs—frequent vacuuming of dust and off-cuts.
- Avoid use of compressed air for cleaning.
- Maintain extraction systems per manufacturer recommendations.

Environmental Controls

- Prevent dust release into surrounding work areas by using enclosed machining processes where possible.
- Collected dust should be sealed and disposed of per Section 13.

Personal Protective Equipment (PPE)

Respiratory Protection

Required only during machining or dust-generating processes:

- P2 or N95 particulate respirator recommended.
- For extended machining operations, powered air-purifying respirator (PAPR) may be used.

Eye / Face Protection

- Safety glasses with side shields, or
- Face shield for heavy machining or cutting operations.

Skin / Hand Protection

- Gloves recommended to prevent cuts or abrasions from sheet edges.
- Nitrile, leather, or cut-resistant gloves are suitable.

Protective Clothing

- Standard industrial workwear is sufficient.
- Long sleeves recommended when handling sheets and off-cuts.
- Launder clothing regularly to remove dust.

Hearing Protection

- Use hearing protection as required by local noise level assessments for CNC routers, saws, grinders, etc.

Exposure Monitoring

If dust generation is significant, workplace monitoring should be carried out to ensure compliance with nuisance dust limits.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value / Description
Appearance	Rigid sheet material; typically, golden-brown/amber colour, smooth matte finish
Physical Form	Solid article (composite insulation sheet)
Odour	Odourless
Odour Threshold	Not applicable
pH	Not applicable (solid, non-soluble)
Melting Point / Freezing Point	> 1000 °C (mica matrix)
Initial Boiling Point and Range	Not applicable
Flash Point	Not applicable – non-combustible
Evaporation Rate	Not applicable
Flammability (solid, gas)	Non-flammable, non-combustible
Upper / Lower Flammability or Explosive Limits	Not applicable
Vapour Pressure	Not applicable
Vapour Density	Not applicable

Relative Density / Specific Gravity	2.3 – 2.6 (water = 1)
Solubility (Water)	Insoluble
Solubility (Other)	Insoluble in oils, solvents, and common industrial fluids
Partition Coefficient (n-octanol/water)	Not applicable
Auto-Ignition Temperature	Not combustible
Decomposition Temperature	> 1000 °C (mica); silicone binder may degrade at ~250–300 °C
Viscosity	Not applicable
Explosive Properties	None
Oxidising Properties	None
Thermal Conductivity	0.30 – 0.35 W/m·K
Dielectric Strength	15–20 kV/mm (typical)
Bulk Density	Consistent across sheet thickness; high structural integrity
Particle Size	Not applicable (solid); machining dust is fine particulate
Partition Behaviour	Material remains as a solid; does not volatilise or dissolve
Surface Resistivity	10^{12} – 10^{14} Ω (typical)

SECTION 10: STABILITY AND REACTIVITY

Reactivity

- Product is chemically inert.
- No hazardous reactivity expected under normal ambient conditions of storage and use.
- Does not polymerise, oxidise, or participate in exothermic reactions.

Chemical Stability

- Stable under normal workplace temperatures, humidity, and environmental conditions.
- Silicone binder remains stable up to approximately 250–300 °C.
- Mica matrix remains structurally stable up to >1000 °C.

Possibility of Hazardous Reactions

- No hazardous reactions are known or expected.
- Does not react with water, oils, or common industrial substances.
- Will not undergo decomposition at ambient temperature.

Conditions to Avoid

- Excessive heat during machining (above 250–300 °C may soften binder).
- Prolonged contact with strong alkalis, which may degrade mica structure.
- Avoid prolonged exposure to extreme temperature cycling for dimensional accuracy.
- Avoid creating airborne dust during processing.

Incompatible Materials

- Strong alkaline substances (e.g., caustic soda, potassium hydroxide).
- Concentrated alkalis may slowly attack the mineral structure.
- Otherwise, compatible with acids, solvents, oils, fuels, greases, coolants, and cleaning agents.

Hazardous Decomposition Products

No hazardous decomposition products under normal use.
At extreme temperatures (>1000 °C), decomposition may result in:

- Trace amounts of mineral particulates (silicate-based)
- Minor, non-toxic silicone decomposition by-products.
- No corrosive gases
- No halogenated compounds
- No toxic smoke or fumes

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- **Inhalation:** Possible during machining when dust is generated.

- **Skin Contact:** Possible irritation from fine particulates; no chemical hazard.
- **Eye Contact:** Dust may cause mechanical irritation.
- **Ingestion:** Unlikely; low toxicity.

Acute Health Effects

Inhalation

- Dust may cause temporary mechanical irritation of the nose, throat, and upper respiratory tract.
- Symptoms may include coughing, dryness, or a scratchy throat.
- No systemic toxicity expected.

Skin Contact

- Dust may cause mild mechanical irritation.
- No sensitisation or dermatitis expected.

Eye Contact

- Dust may cause redness, watering, or temporary discomfort.
- Not corrosive; no permanent damage expected with proper rinsing.

Ingestion

- Low acute toxicity.
- May cause minor gastrointestinal discomfort if large quantities are swallowed.

Chronic Health Effects

- No known chronic or long-term health impacts from handling the solid product.
- Long-term exposure to nuisance dust may aggravate pre-existing respiratory conditions (e.g., asthma).
- No evidence of fibrosis, lung damage, or systemic toxicity.

Toxicity Data (Reference for Component Materials)

The product is a solid composite and does not present chemical toxicity.
Toxicological benchmarks below relate to base materials:

Component	Toxicological Notes
Phlogopite Mica	Chemically inert; not classified as a carcinogen; low bioavailability
Silicone Resin (Cured)	Non-toxic, non-irritating, non-sensitising

Information on Toxicological Effects

Acute Toxicity (Oral, Dermal, Inhalation)

Not classified as hazardous.
No acute systemic toxicity expected.

Skin Corrosion / Irritation

- Not corrosive.
- Only temporary mechanical irritation possible from dust.

Serious Eye Damage / Irritation

- Not classified as an eye irritant.
- Dust may cause temporary mechanical irritation.

Respiratory or Skin Sensitisation

- Not a respiratory sensitiser.
- Not a skin sensitiser.
- No allergenic potential known.

Germ Cell Mutagenicity

- Not applicable.
- No mutagenic components present.

Carcinogenicity

- Not listed by IARC, NTP, OSHA, Safe Work Australia, or ACGIH.
- Contains no asbestos, crystalline silica fibres, or known carcinogens.

Reproductive Toxicity

- No evidence of reproductive or developmental toxicity.

STOT – Single Exposure

- Not classified.
- Only effect is potential mechanical respiratory tract irritation from dust.

STOT – Repeated Exposure

- Not classified.
- Repeated high-level dust exposure may cause chronic throat or upper respiratory irritation.

Aspiration Hazard

- Not applicable; solid, non-toxic material.

Additional Health Information

- Product is safe under normal handling and machining conditions with appropriate dust control measures.
- No chemical reactivity or toxicity is associated with solid-form mica/silicone composite.
- Dust produced during machining remains non-toxic but should be controlled for worker comfort and hygiene.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

- This product is not expected to be hazardous to the environment.
- Solid, inert composite material that does not dissolve, leach harmful substances, or interfere with aquatic or terrestrial systems.
- No toxic effects on fish, invertebrates, plants, or microorganisms are anticipated.

Persistence and Degradability

- Material is highly stable and non-biodegradable, consisting primarily of natural mineral mica and cured silicone resin.
- Does not degrade into harmful compounds.
- Long-term persistence in the environment is not associated with ecological harm due to inert nature.

Bioaccumulative Potential

- Low potential for bioaccumulation.

- Insoluble and chemically inert; does not absorb into living organisms or fatty tissues.

Mobility in Soil

- Immobilised in soil due to solid form and insolubility.
- Will remain as a stable solid and not migrate into groundwater.

Other Adverse Effects

- Does not contain ozone-depleting substances.
- Does not contribute to greenhouse gas emissions, acidification, or eutrophication.
- Not classified as harmful to the ozone layer under the Montreal Protocol.
- Not expected to interfere with wastewater treatment processes.
- Considered safe for landfill disposal as non-hazardous solid waste.

Environmental Summary

- Material is safe for the environment under normal use and disposal conditions.
- No special environmental precautions are required beyond general good practice for dust control.

SECTION 13: DISPOSAL CONSIDERATIONS

Safe Waste Disposal Methods

- This product is classified as non-hazardous solid waste.
- Dispose of material in accordance with local, state, and federal regulations.
- Off-cuts, machining waste, and damaged sheets may be disposed of at approved landfill facilities.
- Avoid releasing generated dust into the environment; collect using vacuum systems or wet sweeping before disposal.
- Do not incinerate — material is non-combustible, and incineration provides no benefit.
- Ensure dust-filled bags are securely sealed prior to disposal to prevent airborne dispersal.

Recycling / Reuse

- Material may be mechanically recycled for certain industrial filler applications where available.
- Clean, unused sheet remnants may be repurposed or re-machined.

- Recycling streams will depend on local facility capabilities; consult waste handlers for availability.

Contaminated Packaging Disposal

- Packaging materials (plastic wrap, cardboard, timber pallets) are not hazardous.
- Dispose of or recycle packaging materials in accordance with local council guidelines.
- Ensure packaging that contains dust or particulates is cleaned or securely bagged before disposal.

Special Precautions for Disposal

- Prevent dust generation during handling of waste.
- Do not dispose into drains, stormwater systems, or natural waterways.
- Do not mix with incompatible waste streams such as strong alkalis.

SECTION 14: TRANSPORT INFORMATION

- **UN Number:** Not applicable – this product is not classified as Dangerous Goods.
- **Proper Shipping Name:** Not regulated for transport.
  Recommended description: "Non-Hazardous Solid – Mica Composite Sheet"
- **Transport Hazard Class:**
    - ADG (Road/Rail): Not classified.
    - IMDG (Sea): Not classified.
    - IATA (Air): Not classified.

  The product presents no flammability, reactivity, toxicity, or environmental hazards that require classification.
- **Packing Group:** Not applicable – no DG classification.
- **Environmental Hazards:**
    - Not a marine pollutant.
    - Not harmful to aquatic life.
    - Material is inert and non-soluble.
- **Special Precautions:**
    - No special transport precautions required.
    - Secure sheets, pallets, or bundles to prevent shifting during transit.
    - Avoid impact or crushing damage to sheet edges.
    - Use mechanical aids for large sheet lifting to prevent handling injuries.

Transport in Bulk (ADG / IMDG / IATA)

Not regulated for bulk transport.
No special provisions apply under Annex II of MARPOL or the IBC Code.

Additional Transport Notes

- Suitable for shipping by road, sea, air, or rail.
- Normal industrial packaging (pallets, crates, shrink wrap) is acceptable.
- No marking, labelling, or placarding required under DG regulations.

SECTION 15: REGULATORY INFORMATION

Safety, health, and environmental regulations specific to the product

- Classified in accordance with the Globally Harmonized System (GHS) and the Model Work Health and Safety (WHS) Regulations.
- Relevant component hazard data sourced from the Safe Work Australia Hazardous Chemical Information System (HCIS).

Regulation / Standard	Details
GHS Classification (Safe Work Australia)	Not classified as hazardous under GHS criteria.
Australian Inventory of Industrial Chemicals (AIIC)	All components are listed, naturally occurring, or exempt from listing.
Dangerous Goods Classification (ADG Code)	Not classified as Dangerous Goods for transport by road, rail, sea, or air.
Work Health and Safety (WHS) Regulations	Complies. Dust generated during machining must be controlled as "nuisance dust".
RoHS 3 (EU Directive 2015/863)	Fully compliant – contains no lead, mercury, cadmium, hexavalent chromium, PBB, PBDE, or restricted substances.
REACH (EC Regulation No. 1907/2006)	Fully compliant – contains no SVHCs (Substances of Very High Concern).
U.S. TSCA (Toxic Substances Control Act)	All ingredients listed or exempt.
IARC / NTP / OSHA Carcinogen Listings	Not classified or listed as carcinogenic by any agency.

Ozone-Depleting Substances (ODS)	Contains no ODS; compliant with Montreal Protocol.
Kyoto Protocol / Greenhouse Gas Emissions	Contains no substances with global warming potential; no greenhouse gas emissions.
EPA / State Environmental Protection Regulations	Classified as non-hazardous solid waste; appropriate for landfill disposal.
Product Compliance Standards	Meets or exceeds:
	• IEC 60371 – Mica-based insulating materials
	• MIL-I-24768 (relevant designations for mica-based composite insulation)
	• Internal MISCO QA/QC standards
Hazard Communication Requirements	SDS prepared in accordance with the Safe Work Australia Code of Practice (Preparation of Safety Data Sheets, 2021).
Other International Compliance	Conforms to ISO 9001 (Quality) and ISO 14001 (Environmental Management) principles (supplier dependent).
Asbestos-Free Compliance	Confirmed; product contains zero asbestos or asbestos-like fibres.
Halogen-Free Compliance (IEC 61249-2-21)	Compliant.

Additional Regulatory Notes

- This product is a solid article, not a chemical mixture, and therefore many chemical-specific regulatory requirements do not apply.
- Intended for industrial use by trained personnel.
- Workplace controls relate only to dust generated during machining, not the sheet in its supplied form.

SECTION 16: OTHER INFORMATION

Information	Details
SDS Preparation Date:	14.8.2025
Revision Number:	1
Review Date:	24 months or upon regulatory update (whichever occurs first)
Prepared By:	MISCO Australia Pty Ltd
Abbreviations:	**GHS** – Globally Harmonised System of Classification and Labelling of Chemicals **AIIC** – Australian Inventory of Industrial Chemicals **ADG** – Australian Dangerous Goods Code

	WHS – Work Health and Safety **PPE** – Personal Protective Equipment **LD_{50} / LC_{50}** – Median lethal dose/concentration **SVHC** – Substance of Very High Concern **UL** – Underwriters Laboratories **TWA** – Time-Weighted Average **REACH** – Registration, Evaluation, Authorisation and Restriction of Chemicals (EU) **RoHS** – Restriction of Hazardous Substances Directive **IEC** – International Electrotechnical Commission **NEMA** – National Electrical Manufacturers Association **MIL-I-24768** – U.S. Military Specification for Insulating Plastics **RTI** – Relative Thermal Index **SCBA** – Self-Contained Breathing Apparatus **VOC** – Volatile Organic Compounds **HEPA** – High-Efficiency Particulate Air filtration **LEV** – Local Exhaust Ventilation
Key References:	• **Safe Work Australia (SWA)** o *Code of Practice: Preparation of Safety Data Sheets* (May 2021) o *Hazardous Chemical Information System (HCIS)* – ingredient hazard classifications o *Work Health and Safety Regulations* and Model Codes of Practice • **Globally Harmonised System (GHS)** o United Nations Economic Commission for Europe (UNECE) o *GHS, Seventh Revised Edition* – classification, labelling and SDS requirements. • **Australian Dangerous Goods Code (ADG)** o National Transport Commission (NTC)

	○ *Australian Dangerous Goods Code, Edition 7.7* – transport classifications and exemptions • **Industrial Chemicals Act 2019 (AICIS)** ○ Australian Industrial Chemicals Introduction Scheme ○ Guidance on chemical inventory status and exemptions for articles • **IEC Standards** ○ *IEC 60371* – Specifications for mica-based insulating materials ○ *IEC 60695* – Fire hazard testing principles where applicable • **NEMA Standards** ○ *NEMA LI-1* – Industrial Laminated Thermosetting Products (reference for insulating composites) • **Military Specifications (U.S. Department of Defence)** ○ *MIL-I-24768* – Military Specification for Insulating Plastics and Composites • **ISO Standards** ○ *ISO 9001* – Quality Management Systems (supplier compliance) ○ *ISO 14001* – Environmental Management Systems ○ *ISO 45001* – Occupational Health & Safety (workplace safety principles) • **Environmental and Chemical Regulations** ○ *EU REACH Regulation (EC) 1907/2006* – SVHC and compliance assessment ○ *EU RoHS Directive 2015/863* – restricted substances guidance ○ *Montreal Protocol* – Ozone-depleting substances restrictions ○ *OSHA Hazard Communication Standard* (29 CFR 1910.1200)

	• **Toxicological and Occupational Exposure Guidance** o Safe Work Australia – *Exposure Standards for Atmospheric Contaminants* o ACGIH – Threshold Limit Values (TLVs) for nuisance dust • **Internal MISCO Australia Documentation (2025)** o Material specifications, supplier certificates, product compliance data, and quality records specific to Rigid Silicone Mica Sheet – Phlogopite Type
Emergency Contact:	Australia – Emergency Services: 000 Poisons Information Centre: 13 11 26 MISCO Australia Pty Ltd: +61 3 9706 5185

DISCLAIMER

The information contained in this Safety Data Sheet (SDS) is provided by MISCO Australia in good faith and is believed to be accurate and reliable as of the date of issue. The information is based on current knowledge and is intended to describe the product solely in terms of health, safety, and environmental requirements. It does not represent any guarantee of the product's properties or suitability for a specific application.

This SDS is intended as a guide for the safe handling, use, storage, transport, and disposal of the material. It is the responsibility of the user to assess the suitability of the material for any intended purpose and to ensure that working conditions comply with applicable laws, standards, and safety practices.

Important Notes:

- *MISCO Australia makes no warranties, express or implied, and assumes no liability for the accuracy or completeness of the data or for any damages resulting from the use of the product or the information provided in this SDS.*
- *This document is not intended to serve as a substitute for proper training, risk assessment, or professional judgement in the use of chemical and composite materials.*
- *Users must ensure that they understand and comply with all local, state, and federal regulations, as well as workplace safety procedures when handling this product.*
- *Where this material is used as part of a larger system or process, additional hazards may exist that are not covered in this SDS. It is the user's responsibility to assess the entire context in which the product is used.*

MISCO Australia reserves the right to revise Safety Data Sheets in response to new information, changes in legislation, or updated risk assessments without prior notice. The most current version of this SDS supersedes all previous versions and should be consulted before each use of the product.

Revision	Date Issued	Prepared / Reviewed By	Description of Change	Approved By
1.0	January 2025	MISCO Australia	Initial release of SDS for Rigid Silicone Mica Sheet – Phlogopite Type	Director, MISCO Australia

Document Control:

- **Document Title:** Rigid Silicone Mica Sheet (Phlogopite Type)
- **Document ID:** MISCO – SDS - 0016
- **Revision:** 1.0
- **Review Cycle:** 24 months or upon regulatory update (whichever occurs first)

END OF SAFETY DATA SHEET.