



SAFETY DATA SHEET (SDS)

CB-HFT-600 POLYOLEFIN HEAT SHRINK TUBING

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

SECTION 1: IDENTIFICATION

- **Product Name:** CB-HFT-600 Polyolefin Heat Shrink Tubing
- **Recommended Use:** Electrical insulation, cable bundling, mechanical protection, colour identification, and general-purpose industrial wiring applications.
- **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 - 002
- **SDS Version:** 1.0

SECTION 2: HAZARD(S) IDENTIFICATION

This product is **NOT classified as hazardous** under:

- Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
- Model Work Health and Safety Regulations (Australia)
- Safe Work Australia Hazardous Chemical Information System (HCIS)

The product is a **manufactured article** and presents **no chemical hazard** in its supplied form.

- **GHS Classification:**

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

- **GHS Label Elements:**

- **Signal Word:** Not required.
- **Hazard Pictograms:** None required.
- **Hazard Statements:** Not classified as hazardous.
- **Precautionary Statements (General):**
 - P101: If medical advice is needed, have product container or label at hand.
 - P102: Keep out of reach of children.
 - P281: Use personal protective equipment as required during heat application.
 - *(Precautionary statements included for good practice only; not legally required.)*

Other Hazards Not Resulting in Classification

2.1 Thermal Hazards

This product becomes hot during installation. Potential hazards include:

- Burns to skin if touched immediately after shrinking.
- Melting of adjacent plastics if excessive heat is applied.
- Ignition of nearby flammable materials if exposed to open flame or extreme heat.
- Shrinking with open flames can cause charring and localised melting.

The product must be heated with **controlled industrial heat guns only**, not blowtorches.

2.2 Fume Hazards (from Overheating Only)

Under correct use, the product does **not** release hazardous fumes.

If overheated beyond decomposition temperature (>250°C), it may release:

- Carbon monoxide
- Carbon dioxide
- Low levels of hydrocarbons
- Light organic vapours
- Irritating decomposition fumes

Possible symptoms from exposure to overheated fumes:

- Eye irritation
- Throat irritation.
- Coughing

- Headache or discomfort
Symptoms usually resolve upon removal to fresh air.

2.3 Mechanical Hazards

When cutting, trimming, or shaping the tubing:

- Small polymer fragments may be generated.
- Particles may cause mechanical irritation if entering the eyes.
- Dull cutting tools may slip and cause injury.

Safety glasses are recommended during cutting.

2.4 Electrical Hazards (During Installation)

The product itself is an insulator but may pose risk if:

- Installed on energised equipment.
- Trapped moisture is present on conductors.
- Poorly installed tubing exposes conductive elements.

Always isolate circuits before use.

2.5 Environmental Hazards

Not classified as hazardous to the environment.

Key points:

- Non-biodegradable but environmentally inert
- Not soluble in water
- Not toxic to aquatic or terrestrial organisms
- Does not release hazardous substances under normal conditions.
- Does not bioaccumulate or leach chemicals

2.6 Classification Summary

- **Not hazardous** under GHS criteria
- **Not a dangerous good** according to ADG Code
- **Not a scheduled poison** (SUSMP)
- **Not carcinogenic, mutagenic, or reprotoxic**
- **No hazardous ingredients above regulatory thresholds**

- **Safe when used as intended.**

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance / Article

CB-HFT-600 is supplied as a **solid, cross-linked polyolefin heat-shrink tubing**.

It is a **manufactured article** and not intended to release any substance under normal use.

The product contains **no hazardous ingredients** in quantities requiring disclosure under Safe Work Australia criteria or GHS.

3.2 Composition

Component	CAS Number	Typical Proportion	GHS Classification	Notes
Cross-Linked Polyolefin (Base Polymer)	Proprietary polymer blend	90–98%	Non-hazardous	Main structural component; electrically insulating, chemically stable
Colour Pigments (Red, Blue, Yellow, Green, White, Black)	Various	1–5%	Non-hazardous	Fully encapsulated; used for identification only
Stabilisers / Antioxidants	Proprietary	<2%	Non-hazardous	Improve heat stability and service life
Processing Aids / Fillers	Proprietary	<3%	Non-hazardous	Enhance extrusion and material uniformity

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

3.3 Hazard Information

All components in this product meet the following criteria:

- **Not listed as hazardous** by Safe Work Australia
- **No substances classified as carcinogenic, mutagenic, or reprotoxic (CMR)**
- **No REACH SVHCs** present above 0.1%
- **No RoHS-restricted substances** (Pb, Cd, Hg, Cr6+, PBB, PBDE)
- **No halogenated flame retardants** used.
- **No plasticisers such as phthalates**

- **No PFOS, PFOA, PFHxS or other PFAS substances**
- **No ozone-depleting substances** per the Montreal Protocol
- **No volatile organic compounds (VOC)** released under normal use.
- **No regulated nanomaterials**
- **No solvents, monomers, or unreacted intermediates** present

3.4 Additional Information

- The cross-linking creates a **thermoset-like polymer structure**, preventing melting during use.
- Additives are **bound within the polymer matrix** and do not migrate.
- The product is **chemically inert, non-reactive**, and does not release chemicals under normal service temperatures.
- Hazardous decomposition occurs **only when subjected to extreme heat (>250°C)**.

3.5 Information on Impurities and Stabilising Additives

- Contains trace amounts of stabilising agents (<1%) essential for polymer longevity.
- Contains **no impurities** classified as hazardous.
- Contains **not intentionally added microplastics**.
- No added heavy metal stabilisers (e.g., cadmium, lead, mercury).
- Pigments used are **non-toxic and heavy-metal-free**.

3.6 Additional Technical Notes

- Physical form significantly reduces any exposure risk (solid tubing).
- No dust is generated during normal use; only minimal inert fragments may be produced during cutting.
- The chemical composition remains unchanged during expected service life.
- Material is **non-soluble, non-volatile, and non-bioavailable**.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation

This product does not emit harmful vapours under normal use.

If inhalation exposure occurs due to **overheating, scorching, or thermal decomposition**:

- Remove affected person to fresh air immediately.
- Keep the person warm and at rest.
- Avoid breathing fumes; ensure adequate ventilation.
- Monitor for symptoms such as coughing, throat irritation, headache, dizziness, or shortness of breath.
- If symptoms persist, seek medical attention.
- If breathing has stopped, apply artificial respiration by trained personnel.

Skin Contact

Unused Tubing:

- Wash exposed skin with soap and water if irritation occurs (unlikely).

Hot / Recently Shrunk Tubing (Thermal Burn Risk):

- Immediately cool the affected area under running lukewarm water for 10–20 minutes.
- Do not use ice directly on the skin.
- Do not attempt to remove tubing if it is adhered to the skin.
- Do not apply ointments, oils, or creams to fresh burns unless directed by medical personnel.
- Cover the burn with a sterile, non-adhesive dressing.
- Seek medical attention for blistering, deep burns, or persistent pain.

Eye Contact

Exposure may occur through **plastic dust or particles** generated during cutting, trimming, or machining.

- Rinse cautiously with clean water for at least 15 minutes, holding eyelids open.
- Remove lenses if present and easy to do; continue irrigation.
- Avoid rubbing the eye.
- If irritation, redness, pain, or tearing continues after flushing, seek medical attention.

If exposed to **thermal decomposition fumes:**

- Move to fresh air and flush eyes with clean water if irritation occurs.

Ingestion

Ingestion is highly unlikely due to the physical form.

- Rinse mouth thoroughly with water.
- Do not induce vomiting.
- If discomfort or gastrointestinal symptoms develop, seek medical attention.
- Provide the SDS to medical personnel if required.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Acute Effects

- Mild respiratory irritation from overheated fumes
- Eye irritation from dust or particles
- Thermal burns from contact with hot tubing
- Throat irritation or coughing from decomposition vapours
- Headache or mild dizziness following significant fume exposure (rare)

Delayed / Long-Term Effects

- No delayed effects expected from normal handling
- No known chronic health effects associated with product components
- No carcinogenic, mutagenic, or sensitisation effects

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Treat thermal burns using standard clinical burn management protocols.
- No specific antidote is required.
- For inhalation of decomposition fumes, monitor respiratory function and treat symptomatically.
- In cases of severe exposure, supplemental oxygen may be required under medical supervision.
- Provide medical personnel with this SDS for reference.

Additional Advice for Responders / First Aiders

- Avoid contact with hot material.

- Ensure adequate ventilation during heat-shrink operations.
- Use appropriate PPE: heat-resistant gloves, long sleeves, and safety glasses.
- Remove heat sources before assisting an injured person.
- Fumes produced by decomposition are irritating but not expected to cause long-term harm.'

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

This product is **not flammable** under normal conditions but is combustible. Use extinguishing media appropriate for the surrounding fire:

- **Water spray or fog**
- **Dry chemical powder**
- **Carbon dioxide (CO₂)**
- **Alcohol-resistant foam**

Avoid using a high-pressure water jet, which may spread molten polymer.

5.2 Unsuitable Extinguishing Media

- **High-velocity water jets** (may scatter burning material)
- **Direct streams aimed at molten polymer.**

5.3 Specific Hazards Arising From the Product

CB-HFT-600 is a thermoset-like, cross-linked polyolefin material and will burn if exposed to sustained flame or high heat.

Thermal decomposition may generate:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Low-level hydrocarbons
- Irritating organic vapours
- Smoke containing fine polymer particulates.

Fire behaviour:

- Material may melt, drip, or shrink away from heat sources.
- Black tubing is flame-retardant (VW-1), but **coloured tubing may support combustion** if the flame source is sustained.
- Burning may produce dense black smoke.

5.4 Advice for Firefighters

Protective Equipment

Firefighters must wear:

- Full structural firefighting turnout gear
- Positive-pressure self-contained breathing apparatus (SCBA)
- Heat-resistant gloves & boots.
- Eye and face protection

Firefighting Instructions

- Isolate area and evacuate personnel not involved in firefighting.
- Extinguish from a safe distance with adequate ventilation.
- Cool surrounding materials with water spray to prevent re-ignition.
- Avoid inhalation of smoke or decomposition products.
- Prevent runoff into waterways—molten polymer may solidify and block drains.

5.5 Hazchem Code

Not applicable – product is **not classified as Dangerous Goods** under the ADG Code.

5.6 Additional Fire Safety Considerations

- Tubing should not be exposed to open flame during installation.
- Overheating during shrink application can create minor smoke but not flammable vapours.
- In enclosed electrical rooms, ensure ventilation during and after a fire event.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel

- No special precautions are required for the product in solid form.
- Avoid tripping hazards caused by loose tubing or scattered offcuts.
- Use gloves if handling sharp or hot fragments.
- Ensure adequate ventilation if release involves material that has been **overheated**, producing fumes.

For Emergency Responders

- No chemical protective suits required.
- Standard PPE may be used: gloves, safety glasses, and workwear.
- If fumes are present from overheating or burning, wear respiratory protection (e.g., P2 or SCBA depending on severity).
- Remove ignition sources if fire or decomposition has occurred.

6.2 Environmental Precautions

- Product is not hazardous to soil, water, or the environment.
- Prevent large quantities of offcuts or debris from entering drains simply to avoid blockages.
- No special containment procedures required.
- Solid polymer material poses **no acute aquatic toxicity**.

6.3 Methods and Materials for Containment and Cleaning Up

Spills / Dropped Material

- Sweep, pick up, or collect the tubing or fragments manually.
- Place in appropriate containers for reuse or disposal.

Fragments or Dust from Cutting

- Collect using a broom, brush, or vacuum.
- Avoid generating unnecessary dust (purely for housekeeping, not safety reasons).
- Dispose of collected material as **non-hazardous industrial waste**.

If Overheated Material Is Present

- Allow tubing to cool before handling.

- Ventilate the area to clear fumes.
- Remove degraded or charred tubing carefully using gloves.

6.4 Reference to Other Sections

- **Section 7** – Handling and Storage
- **Section 8** – Exposure Controls / Personal Protection
- **Section 13** – Disposal Considerations

6.5 Additional Information

- As an inert, stable polymer article, CB-HFT-600 does not require specialised spill kits or response equipment.
- No chemical reactions or hazardous releases are expected during accidental release.
- Offcuts, dust, and unused lengths should be managed following normal workplace housekeeping standards.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

General Handling

- This product is a solid, non-hazardous polymer article and may be handled without special precautions under normal conditions.
- Handle with clean, dry hands or gloves to avoid contaminating the tubing interior before installation.
- Avoid bending, crushing, or creasing tubing prior to shrinking, as this may affect uniform recovery.
- Ensure that cutting tools (scissors, shears, blades) are sharp and used safely to minimise slippage and prevent injury.
- Avoid generating unnecessary dust or fragments during trimming; maintain good housekeeping practices.

Heat Application (Installation)

- Do not apply open flames or uncontrolled heat sources; use only appropriate industrial heat guns or controlled heating devices.

- Begin heating at the centre of the tubing and move outward to prevent air entrapment.
- Maintain adequate ventilation during shrinking to avoid accumulation of heat or fumes from accidental overheating.
- Avoid skin contact with hot tubing immediately after shrinking; allow material to cool naturally.
- Keep flammable materials away from the heat source during installation.

Electrical Considerations

- Always de-energise electrical circuits prior to installing tubing.
- Ensure no moisture is present inside the tubing or on conductors before shrinking.

Hygiene Measures

- Wash hands after handling if dust or fragments are generated.
- No special personal hygiene requirements beyond standard industrial practices.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Requirements

- Store in a **cool, dry, well-ventilated area** to maintain product quality.
- Keep away from direct sunlight, heaters, ovens, or other sources of elevated heat.
- Avoid prolonged exposure to UV light, which may cause surface fading or discolouration of coloured tubing.
- Keep tubing in its original packaging until use to prevent contamination by dust, moisture, or debris.
- Maintain storage temperature below **40°C** where possible.

Packaging Considerations

- Store spools, coils, and cut-length bundles in a stable manner to prevent crushing or distortion.
- Ensure cardboard, plastic reels, and coils remain intact and protected from moisture.

Incompatibilities

- Avoid contact with strong oxidising agents.
- Store away from open flames, hot surfaces, or ignition sources.
- No known chemical incompatibilities exist for normal industrial storage environments.

Shelf Life

- When stored under recommended conditions, the tubing retains performance characteristics for **5+ years**, subject to normal inspection prior to use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Limits

Workplace Exposure Standards (Safe Work Australia)

- **No exposure limits (WES) have been established** for cross-linked polyolefin materials.
- No hazardous ingredients are present that require monitoring.
- Dust generated from cutting or trimming is considered **nuisance dust only**, with no specific occupational exposure standard.

General Reference Values (Nuisance Particulates, if generated):

- 10 mg/m³ (inhalable dust)
- 3 mg/m³ (respirable dust)
(These values are general guidelines only; not specific to this product.)

8.2 Engineering Controls

General Requirements

- No special engineering controls are required for handling the unused product.
- Standard workplace ventilation is sufficient.

During Heat Application

Use engineering controls if heat shrinking large volumes or in confined areas:

- Provide **local exhaust ventilation (LEV)** to remove heat or fumes in enclosed spaces.
- Ensure adequate airflow when using industrial heat guns.
- Avoid overheating (>250°C) to prevent release of decomposition vapours.

Cutting & Trimming

- Use local extraction or vacuum collection if large quantities of polymer fragments are produced.
- Maintain good housekeeping to prevent slip hazards and dust accumulation.

8.3 Personal Protective Equipment (PPE)

Eye Protection

- Safety glasses or goggles are recommended when cutting, trimming, or shrinking tubing.
- Use eye protection with side shields to prevent entry of particles.

Hand Protection

- Heat-resistant gloves should be worn when handling tubing during or immediately after shrinking.
- Standard work gloves may be used for handling unused tubing.

Skin & Body Protection

- Long sleeves or protective clothing are recommended during heat shrinking to prevent burns.
- No special protective clothing is required beyond standard workwear.

Respiratory Protection

- Not normally required.
- If fumes from **overheating or burning** are present, use:
 - P2 particulate respirator; or
 - SCBA for fire or heavy smoke conditions.

Foot Protection

- Standard industrial footwear is adequate.

Hygiene Measures

- Wash hands after handling if dust or fragments are generated.
- Do not eat, drink, or smoke while handling or cutting tubing.
- Remove contaminated clothing before reuse (unlikely except in overheating scenarios).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
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Appearance	Solid heat-shrink tubing; supplied in various colours (White, Red, Blue, Yellow/ Green, Black)
Odour	Odourless
pH	Not applicable (solid, insoluble polymer)
Boiling Point	Not applicable
Melting Point	Base polymer softens at approx. 120–130°C before cross-linking; final product does not melt (cross-linked)
Flash Point	Not applicable (solid)
Evaporation Rate	Not applicable
Flammability (solid, gas)	Combustible: Black tubing is flame-retardant (VW-1)
Upper/Lower Flammability or Explosive Limits	Not applicable—no flammable vapours generated
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Relative Density	Not applicable
Specific Gravity	1.30–1.35 (typical)
Solubility	Insoluble in water and most solvents
Partition Coefficient (n-octanol/water)	Not applicable (high-molecular-weight solid polymer)
Auto-ignition Temperature	>300°C (typical for cross-linked polyolefins)
Decomposition Temperature	>250°C (may release irritating fumes)
Viscosity	Not applicable (solid)

SECTION 10: STABILITY AND REACTIVITY

Reactivity

- Product is **non-reactive** under normal ambient conditions.

- Chemically inert and does not undergo hazardous polymerisation or decomposition when used as intended.
- Will only react under extreme heat or strong oxidative conditions.

Chemical Stability

- **Stable** under recommended storage and handling conditions.
- Cross-linked polymer structure provides excellent resistance to thermal, chemical, and environmental degradation.
- No known significant degradation occurs under temperatures up to the rated operating limit (+125°C).

Possibility of Hazardous Reactions

- **None expected** during normal handling, storage, or use.
- Does **not** polymerise, oxidise, or undergo self-reactive processes.
- Hazardous reactions are only possible during **extreme overheating**, burning, or prolonged exposure to temperatures above decomposition range.

Conditions to Avoid

Avoid the following to prevent degradation or decomposition:

- Exposure to **open flames**
- Prolonged heating above **125°C** in normal use
- Accidental overheating above **250°C** (onset of decomposition)
- Contact with hot surfaces during storage.
- Confined spaces during heat application without ventilation
- Direct UV exposure for extended periods (may cause surface fading in coloured tubing)

Incompatible Materials

While normally inert, the product should be kept away from:

- **Strong oxidising agents** (e.g., nitric acid, peroxides, chromates)

- **Strong reducing agents** (extreme conditions only)
- **Aromatic or chlorinated solvents at high temperature** (may soften polymer)
- **Open flames or ignition sources**

No hazardous cross-reactions are known at ambient temperatures.

Hazardous Decomposition Products

Decomposition occurs only under extreme heat (>250°C), burning, or exposure to fire.

Products may include:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Low molecular weight hydrocarbons
- Light organic vapours
- Smoke containing fine polymer particulates.
- Possible traces of aldehydes or organic acids (typical of overheated polyolefins)

These fumes may cause irritation to eyes, skin, and respiratory tract.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Category	Information
Likely Routes of Exposure	Not expected to pose exposure risks under normal use. Possible routes only during cutting (dust) or overheating (fumes): • Inhalation of fumes from overheated tubing • Eye contact with dust or fragments • Skin contact with hot material (thermal burn only) • Ingestion is unlikely due to physical form
Acute Effects	No acute toxic effects from the unused product. Overheated fumes may cause mild transient irritation of eyes, nose, throat, or respiratory tract. Hot tubing may cause thermal burns.

Chronic Effects	No known chronic health effects. No evidence of sensitisation, carcinogenicity, mutagenicity, reproductive toxicity, or systemic organ toxicity.
Toxicity Data (for reference components)	Cross-linked polyolefin materials are considered non-toxic and inert. Oral LD ₅₀ (polyolefin polymers): >5,000 mg/kg (rat). Not classified as hazardous by Safe Work Australia. Colour pigments are encapsulated in the polymer matrix and not bioavailable.
Information on Toxicological Effects	No harmful effects expected under normal handling. Polymer is inert and not absorbed by the body. Exposure concerns arise only from thermal decomposition fumes (irritation only).
Acute Toxicity	Not classified. No acute toxicity expected. Cross-linked polyolefin has extremely low toxicity if ingested or inhaled.
Skin Corrosion/Irritation	Not irritating in solid, cool form. Only hazard is thermal burns from freshly shrunk tubing.
Serious Eye Damage/Irritation	Not classified. Dust or fragments from cutting may cause mechanical irritation only.
Respiratory or Skin Sensitisation	Not a sensitiser. No known sensitising components present.
Germ Cell Mutagenicity	Not classified. No mutagenic ingredients present.
Carcinogenicity	Not classified. Not listed by IARC, NTP, OSHA, or Safe Work Australia. Contains no carcinogenic substances.
Reproductive Toxicity	Not classified. No components associated with reproductive effects.
STOT – Single Exposure	Not classified. Fumes from extreme overheating may cause temporary irritation of upper respiratory tract.
STOT – Repeated Exposure	Not classified. No known long-term toxicological effects from repeated exposure.
Aspiration Hazard	Not applicable. Solid, inert polymer article; cannot be aspirated into lungs.

SECTION 12: ECOLOGICAL INFORMATION

Category	Information
Ecotoxicity	Not expected to be hazardous to the environment. Cross-linked polyolefin is inert and non-toxic to aquatic and terrestrial organisms. No acute or chronic ecotoxicity data indicate harmful effects.
Persistence and Degradability	Material is not biodegradable ; however, it is chemically stable and environmentally inert . Does not degrade into harmful substances under normal environmental conditions. Breakdown occurs only through long-term physical weathering or high-temperature combustion.
Bioaccumulative Potential	Not Bioaccumulative. High molecular weight polymer is insoluble, non-volatile, and not capable of significant biological absorption. Does not cross biological membranes.
Mobility in Soil	Very low mobility. Solid, insoluble, non-swellable material remains in place where deposited. Does not leach hazardous ingredients. Not water-soluble and not expected to migrate through soil or groundwater.
Other Adverse Effects	<ul style="list-style-type: none"> • Not classified as hazardous to the ozone layer. • No known environmental toxicity associated with pigments or additives (encapsulated within polymer matrix). • Not expected to contribute to eutrophication or aquatic contamination. • May contribute to microplastic accumulation only through mechanical breakdown, not chemical degradation.

SECTION 13: DISPOSAL CONSIDERATIONS

Category	Information
Safe Waste Disposal Methods	<ul style="list-style-type: none"> • Dispose of tubing, offcuts, and scrap material as non-hazardous industrial plastic waste. • Product is not classified as dangerous and does not require special disposal procedures.

	<ul style="list-style-type: none"> • Recycling is generally not feasible due to the cross-linked (thermoset-like) structure; material cannot be remelted. • Do not incinerate except in approved facilities—combustion may produce carbon monoxide and organic vapours. • Follow local, state, and federal regulations for disposal of inert polymer materials. • Prevent large quantities from entering drains or waterways solely to avoid obstruction (not toxicity).
Contaminated Packaging Disposal	<ul style="list-style-type: none"> • Packaging (cardboard cartons, plastic bags, and reels) is typically recyclable if clean and dry. • Dispose of contaminated packaging as general solid waste or recycling, depending on local council requirements. • No hazardous residues are expected; packaging does not require special handling. • Reuse spools or reels where possible to reduce environmental impact.

SECTION 14: TRANSPORT INFORMATION

Transport Information Category	Details
UN Number	Not applicable – product is not classified as Dangerous Goods under ADG, IMDG, or IATA.
Proper Shipping Name	Not applicable. Product may be described as <i>“Polyolefin Heat Shrink Tubing – Non-Hazardous”</i> for general freight documentation.
Transport Hazard Class	Not applicable – no hazard class assigned.
Packing Group	Not applicable.

Environmental Hazards	None known. Product is inert, non-toxic, and not harmful to aquatic environments.
Special Precautions	<ul style="list-style-type: none"> • No special transport conditions required. • Protect from excessive heat, open flames, and physical damage during transit. • Avoid crushing or deforming tubing reels or coils. • Keep packages dry and sealed.
Marine Pollutant	Not classified as a marine pollutant (IMDG).

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.
- All component hazard information has been reviewed against the Safe Work Australia Hazardous Chemical Information System (HCIS).
- Product is considered a manufactured article and is not classified as hazardous under chemical regulations.

Regulatory Category	Details
GHS Classification (Safe Work Australia)	Not classified as hazardous under GHS criteria.
Australian Inventory of Industrial Chemicals (AIIC)	All ingredients are listed on AIIC or are exempt from listing.
Dangerous Goods Classification (ADG Code)	Not classified as Dangerous Goods for road, rail, sea, or air transport.
Work Health and Safety (WHS) Regulations	Complies with WHS requirements. Any dust generated during cutting is managed under general "nuisance dust" standards.

RoHS 3 (EU Directive 2015/863)	Fully compliant — contains no lead, mercury, cadmium, hexavalent chromium, PBB, or PBDE.
REACH (EU Regulation 1907/2006)	Compliant — contains no SVHCs above 0.1%; not subject to authorisation or restriction.
US TSCA (Toxic Substances Control Act)	All ingredients are listed or exempt.
IARC / OSHA / NTP Classification	Not listed as a known or suspected carcinogen by any agency.
Ozone-Depleting Substances (ODS)	None present. Complies with Montreal Protocol and Ozone Protection regulations.
Greenhouse Gas / Kyoto Protocol	Does not contain regulated greenhouse gases or substances with global warming potential.
Environmental Protection (EPA / State Regulations)	Considered non-hazardous solid waste; dispose of through licensed waste facilities.
Product Compliance Standards	Meets applicable international insulation and polymer standards including: • IEC 60684 (Heat-Shrink Tubing) • UL 224 (Electrical Insulation Tubing) • AMS-DTL-23053/5 (Heat-Shrinkable Sleeving, Polyolefin)
Hazard Communication Requirements	SDS prepared in accordance with Safe Work Australia's <i>Code of Practice: Preparation of Safety Data Sheets</i> .
Other International Compliance	Manufactured under ISO 9001 quality control and ISO 14001 environmental management principles (supplier dependent).

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

LC₅₀ / LD₅₀ – Median lethal concentration / dose

SVHC – Substance of Very High Concern

UL – Underwriters Laboratories

TWA – Time-Weighted Average

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

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 System

LEV – Local Exhaust Ventilation

Key References:	<p>Safe Work Australia (SWA) – Code of Practice: Preparation of Safety Data Sheets (May 2021)</p> <p>GHS (7th Edition) – United Nations Economic Commission for Europe (UNECE)</p> <p>Australian Dangerous Goods (ADG) Code, Edition 7.7 – National Transport Commission</p> <p>Industrial Chemicals Act 2019 – AICIS</p> <p>NOHSC – Exposure Standards for Atmospheric Contaminants in the Occupational Environment</p> <p>IEC 60893 – Insulating Materials – Industrial Rigid Laminates (EPGC204)</p> <p>NEMA LI-1 – Industrial Laminated Thermosetting Products (G11 / FR5 Grades)</p> <p>MIL-I-24768 – Military Specification for Insulating Plastics</p> <p>UL 94 – Flammability of Plastic Materials</p> <p>REACH Regulation (EC) No. 1907/2006</p> <p>RoHS Directive (EU) 2015/863</p> <p>ISO 9001 & ISO 14001 – Quality & Environmental Management Systems (supplier dependent)</p> <p>MISCO Australia Pty Ltd – Internal compliance and product data records (2025)</p>
Emergency Contact:	<p>Australia – Emergency Services: 000</p> <p>Poisons Information Centre: 13 11 26</p> <p>MISCO Australia Pty Ltd: +61 3 9706 5185</p>

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 Safety Data Sheet for CB-HFT-600 Polyolefin Heat Shrink Tubing	Director, MISCO Australia

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END OF SAFETY DATA SHEET.