

SAFETY DATA SHEET MUL SERIES THERMOCOUPLE

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: MUL Series
Manufacturer Name: SYSCON Sensors
1108 High Street
Indiana, South Bend 46601
Phone: (574) 232-3900
Emergency Number: (574) 232-3900

SECTION 2 - HAZARD IDENTIFICATION

After multiple immersions in the molten metal, the ceramic fibers may become brittle. Use in a well-ventilated area. Wear gloves to prevent cuts.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Significant Ingredient	CAS Number	PEL (mg/m3)	TLV mg/m3 or f/cc	% Weight
Ceramic Fiber		0.2	0.2	40.5
Cardboard		N/A	N/A	22
Epoxy Resin	24969-06-0	N/A	N/A	9.8
Copper Nickel wire	7440-02-0	N/A	1	4.46
Platinum wire	7440-06-4	1	1	<1
Rhodium Wire	7440-16-6	1	1	<1
Plastic Plug	09010-79-1	N/A	N/A	<4
Colloidal Silica		6	80	<2
Refractory Mortar mix		N/A	N/A	<1

SECTION 4 – FIRST AID MEASURES

Possible exposure to broken glass from thermocouple tip
Eye exposure: Eye irritant or cuts; Cut exposure: Cut to hands
Emergency and First Aid Procedures: For eye exposure - Flush eyes at eye wash station or consult a physician. For cuts to skin: Flush effected area with water and bandage as appropriate or consult a physician.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: N/A
Flammable Product: N/A
Extinguishing Media: Use carbon dioxide, water or foam
Firefighting Procedures: If entering a confined area, fire fighters should wear a NIOSH approved, self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Discard any broken MD-10 thermocouples
Waste Disposal: Landfill in accordance with local, state, and federal regulations

SECTION 7 – HANDLING AND STORAGE

Handling – Do not drop boxes, protect glass tip, discard any broken MD-10 thermocouples in a landfill in accordance with local, state and federal regulations
Storage – Store in a dry, cool place. Do not use wet or damp thermocouples.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Control - PEL, TLV covered under Composition/Information on Ingredients section 3 – see table
Personal Protection: No special handling required for the product alone, however in the workplace where the product is used, wear protective equipment appropriate for safe molten metal work, such as hard hat, safety glasses, safety shoes, fire retardant clothing and gloves.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/A	Vapor Pressure: N/A
Appearance: Ceramic/glass tip	Solubility in water: No
Material: Solid	

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable, Solid material
Reactivity: No reactivity under with typical chemical classes
Ensure thermocouples are not dry or damp or the moisture may react with the metal the thermocouple is used in

SECTION 11 - TOXICOLOGICAL INFORMATION

No known toxicological concerns with the product. Possible exposure to broken glass in eyes or to skin. No toxic or irritant in glass or wire under glass.
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