

SAFETY DATA SHEET SUL SERIES THERMOCOUPLE

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: SUL 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

This product is considered non-hazardous, if used properly.
Decomposition of cardboard will give off carbon monoxide and undetermined smoke. Use a personal respirator and use in a well-ventilated area.
Copper Nickel wire is a SARA recordable in a <1% amount and will not melt under normal usage.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	PEL (mg/m3)	TLV mg/m3 or f/cc	% Weight	CAS #	SARA III Recordable
Cardboard	Not est.	Not est.	55-83	N/A	No
Glue for Cardboard Tube – water-based adhesive - List of ingredients withheld as trade secret			5		No
Aluminum / Steel cap	Not est.	Not est.	<2	N/A	No
Quartz glass	10% + 2	0.05	<1	14808-60-7	No
Platinum wire	1	1	<1	7440-06-4	No
Platinum/Rhodium wire	0.1	1	<1	7440-16-6	No
Plastic Plug	N/A	N/A	<4	09010-79-1	No
Copper Nickel Wire	Not est.	1	<1	7440-02-0	Yes

Note: Group 2A Probable Human Carcinogen

Ceramic Housing	2F/CC	2F/CC	<2	Not established	No
Glue securing tip to tube – water-based silica free adhesive	None est.	None est.	<2		No

SECTION 4 – FIRST AID MEASURES

Inhalation of decomposing cardboard – coughing

Emergency and First Aid Procedures: Inhalation exposure – move to better ventilated area and consult a physician if sever.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: N/A

Flammable Product: Cardboard tube will burn but is not flammable. No explosion hazard

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 thermocouples (SUL) with crushed metal caps, broken tips or crushed tubes.

Waste Disposal: Landfill in accordance with local, state, and federal regulations

SECTION 7 – HANDLING AND STORAGE

Handling: Do not drop boxes, protect glass tip, keep from being crushed, do not break the outer fiber shell, check for wet thermocouples or tubes (SUL); wash hands thoroughly after handling before and after use.

Storage – Store in a dry, cool place. Do not use wet or damaged thermocouples or tubes.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Control - PEL, TLV covered under Composition/Information on Ingredients section 3 – see table

Personal Protection: Wear gloves when handling the product before and after use. Use the product in a well-ventilated environment to prevent irritation from inhalation before and after use. Dispose of used product promptly after use. 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

SYSCON International, Inc.
1108 High Street
South Bend, Indiana 46601
www.sysconsensors.com
+1.574.232.3900 x3

Boiling Point: N/A	Vapor Pressure: N/A
Appearance: Cardboard tube with metal and 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 wet or damp or the moisture may react with the metal the in which thermocouple is used

SECTION 11 - TOXICOLOGICAL INFORMATION

No known toxicological concerns with the product.

Disclaimer of Liability: The above information was extracted from SYSCON Sensors SDS from our raw material suppliers.

However, no warranty of merchantability, fitness for any use, or any other warranty is express or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with such use. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may its use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assume the risk of his use thereof.

Revision Number: 4
Revision Date: August 6, 2024
Supersedes Date: April 4, 2018