Material Safety Data Sheet

1. Identification

Product identifier	TIP 2.5Q
Recommended use	Thermally conductive pad, silicone based thermal interface material
Recommended restrictions	No restrictions on use known
Chemical family	Mixture
Company name	**TCLAD**
Address	1600 Orrin Road, Prescott, WI 54021
Telephone	+1 715 262 8206

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2. Hazard(s) identification

This material is not classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

Physical hazards	This mixture does not meet the classification criteria according to OSHA Hazcom 2012.
Health hazards	This mixture does not meet the classification criteria according to OSHA Hazcom 2012.
Environmental hazards	Not currently regulated by OSHA, refer to Section 12 for additional information.
OSHA defined hazards	This mixture does not meet the classification criteria according to OSHA Hazcom 2012.
Label elements	None required according to OSHA Hazcom 2012.
Signal Word	None required according to OSHA Hazcom 2012.
Hazard statement(s)	None required according to OSHA Hazcom 2012.
Precautionary statement(s)	
Prevention	None required according to OSHA Hazcom 2012.
Response	None required according to OSHA Hazcom 2012.
Storage	None required according to OSHA Hazcom 2012.
Disposal	None required according to OSHA Hazcom 2012.
Hazard(s) not otherwise Classified (HNOC)	No OSHA defined hazard classes.
Supplemental information	Other hazards which do not result in classification:
	Not applicable

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3. Composition/information on ingredients

Chemical name	Common Name and synonyms	CAS number	Concentration (%)
Silicone polymer filled with fillers	Graphite	7782-42-5	45%
	Siloxane	70131-67-8	50%
	Aluminum	7429-90-5	5 %

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4. First-aid measures

Inhalation	If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Get medical attention if irritation develops and persists.
Skin contact	For skin contact, wash with soap and water while removing contaminated clothing. Get medical attention if irritation develops and persists.

Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Obtain medical attention if symptoms develop and persist.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance

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5. Fire-fighting measures

Suitable extinguishing media	Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
Unsuitable extinguishing media	None known
Specific hazards arising from the chemical	Toxic fumes may be released during a fire. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.
Special protective equipment and Precautions for fire-fighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.
Fire-fighting Equipment/instructions	Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Not classified as flammable. However, may burn if exposed to extreme heat and flame.
Hazardous combustion products	Carbon oxides; Metal oxides; Silica; formaldehyde; Silicon oxides

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6. Accidental release measures

Methods for cleaning up	Vacuum or sweep up material and dispose of material in accordance with federal, state, and local regulations.
Environmental precautions	Prevent product from entering drains, sewers, waterways and soil.

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7. Handling and storage

No special precautions need to be taken when handling this material.

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8. Exposure controls/personal protection

Engineering Controls	No special ventilation requirements if good ventilation is maintained.
Personal Protective Equipment	Where contact is likely, wear chemical resistant gloves, longs sleeves, and safety glasses with side shields.
General Hygiene Considerations	Wash hands thoroughly after handling and before eating or drinking.
Exposure Guidelines	Not Available

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9. Physical and chemical properties

Appearance	
Physical state	Solid
Form	Pad
Color	**Black**
Odor	None
Odor threshold	N/Av
pH	N/Av
Melting point /freezing point	N/Av
Initial boiling point and boiling range	N/Av
Flash point	N/Av
Evaporation rate	N/Av
Flammability (solid, gas)	Not applicable.
Lower flammability/explosive limit	N/Av
Upper flammability/explosive Limit	N/Av
Vapor pressure	N/Av
Vapor density	N/Av
Relative density	＞1.6
Solubility(ies)	
Other solubility(ies)	N/Av
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	N/Av
Auto-ignition temperature	N/Av
Decomposition temperature	N/Av
Viscosity	N/Av
Other information	
Explosive properties	Not explosive
Oxidizing properties	None known
Specific gravity	2. 1
VOC	N/Av
Volatilities %	N/Av
Other physical/chemical data	No additional information

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10. Stability and reactivity

Reactivity	Not normally reactive.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.
Conditions to avoid	Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact

with incompatible materials.

Incompatible materials	Strong oxidizing agents; Strong acids.
Hazardous decomposition products	None known, refers to hazardous combustion products in Section 5.

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11. Toxicological information

Effects from Eye Contact	Contact with the eyes during product use is not expected to result in significant irritation.
Effects from Skin Contact	Contact with the skin during product use is not expected to result in significant irritation.
Effects from Inhalation	No health effects are expected.
Effects from Ingestion	No health effects are expected.
Numerical Measures of Toxicity	No data available.
Other Effects and Information	This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

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12. Ecological information

No specific ecological data for this material is available. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

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13. Disposal consideration

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable federal, state, territory and local regulations.
Hazardous waste code	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

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14. Transport information

49CFR/DOT

Not regulated as dangerous goods

ICAO/IATA

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

General information	Appropriate advice on safety must accompany the package. This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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15. Regulatory information

SARA Section 302: Not listed
SARA Section 311, 312: Not listed
SARA Section 313: Not listed

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16. Other information, including date of preparation or last revision

Issue date 11/2026

Version# 3

Disclaimer： The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.