

ULTRASTICK
AAVID P/n 031117

Issue Date: 1/13/99
Revision Date: 4/22/99
Product: Thermstrate 2000 TC Bar

MATERIAL SAFETY DATA SHEET

1. General Product Information

Product Name: Thermstrate 2000 TC Bar Product Code: N/A
Generic Name: Thermal Compound
Chemical Family: 1. Paraffin based Compound (passive/non-toxic) with zinc oxide filler.

Manufacturer: Power Devices Inc.
26941 Cabot Rd., Bldg. 124
Laguna Hills, CA 92653

For further information, contact MSDS Coordinator: (949)582-6712

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:

For Spill, Fire or Accident, call:
CHEMTREC
North America: (800)424-9300
Others: (703)527-3887 – collect

For Health Emergencies, call:
Orange County Poison Control
Center – (800)544-4404

Health Hazards: None Anticipated

Physical Hazards: Paraffin based compound may burn, but will not ignite readily.

- Physical Form: solid to 60°C, coating changes to liquid phase above this temperature.
- Appearance: Gray/white
- Odor: None
- DOT Hazard class: Not listed.

NFPA HAZARD CLASS: Health: 0 (Least)
Flammability: 1 (Slight)
Reactivity: 0 (Least)

2. INGREDIENTS

Materials:

	CAS No.	Concentration %	OSHA PEL	ACGIH TLV
Chemical Name:				
Thermal Compound-	N/A	10		
1. Paraffin (fumes if gen.)	8002-74-2		2 mg/m ³ (TWA)	2 mg/m ³ (TWA)
2. Zinc oxide (tot. dust)	1314-13-2		10 mg/m ³ (TWA)	10 mg/m ³ (TWA)
Propionic Acid	79-09-4			

3. HEALTH EFFECTS DATA

Potential Health Effects:

Eye: Mechanical injury possible. Fumes from ignited coating may cause watering.

Skin: No irritation observed. Contact with hot material can cause burns.

Inhalation: Not a probable route of exposure unless melted. Vapors emitted are expected to have a low degree of toxicity by inhalation.

Ingestion: Do not take internally. No toxic effects expected.

Acute and Chronic effects: No lasting effects on health are known.

4. FIRST AID MEASURES

Eye Contact: Flush with lukewarm water; obtain medical attention if irritation persists.

Remove to fresh air if fumes cause irritation.

Skin Contact: For contact with molten material, flush or immerse affected area (s) using cold water. Seek medical attention.

Inhalation: If respiratory symptoms develop from exposure to fumes emitted by molten material, move victim away from source of exposure to fresh air. If symptoms persist, seek medical attention.

Ingestion: First aid is normally not required for solid material; however, if molten material is swallowed, seek immediate medical attention.

5. FIRE AND EXPLOSION HAZARD DATA

Flammable Properties: Flash point, coating compound - 430°F/221°C (COC)

OSHA Flammability Class: Not Applicable

LEL/UEL – No Data

Auto-ignition Temperature – No Data

Burn Rate – No Data

Unusual Fire & Explosion Hazards: Material may burn, but will not ignite readily.

Extinguishing Media: Dry chemical, foam, water, sand or earth is recommended.

Fire Fighting Instructions: Emergency responders in the danger area should wear bunker gear and self contained breathing.

6. SPILL AND LEAK PROCEDURES

Spill, Leak or Release: Pick up to prevent slipping hazard.

Aquatic Toxicity: Material is insoluble in water.

Storage Conditions: Store away from flammable materials.

Waste disposal: Dispose in a closed container or heavy bag. Material may be recycled or disposed of in accordance with federal, state and local environmental regulations. This material may be regulated under CERLA, TSCA, SARA and/or RCRA Regulations.

7. HANDLING AND STORAGE

Storage Temperature: Minimum – Not Applicable; Maximum - 95°F/35°C

Store in a cool dry location. Keep away from incompatible materials such as strong oxidizing agents. Employee education and training is advisable.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Personal Protective Equipment (PPE):

Respiratory: No respiratory protection is required.

Skin: No special protection required.

Eye/Face: No special protection required.

Other Protective Equipment: A source of clean water should be available in the work area.

9. PHYSICAL DATA

Flash Point: Coating Compound - 430°F/221°C (COC)

Melting Point: Coating Compound – 143F/60C

Boiling Point: No Data

Decomposition Temperature: Not Applicable

Specific Gravity: Liquid –0.76; Solid – 0.92

Solubility in water: Negligible

Solubility, other: Soluble in hydrocarbons.

Volatiles, % by Volume: Negligible

Appearance: Waxy compound

Color: Gray/white

Odor: None

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of storage and handling.

Conditions to Avoid: Avoid all possible sources of ignition (see Sect. 5,7)

Incompatible Materials: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Combustion can yield major amounts of carbon dioxide, some carbon monoxide and minor amounts of oxides of sulfur and nitrogen.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

There is no definitive information available on carcinogenicity, mutagenicity, target organs or developmental toxicity. This product is not carcinogenic according to OSHA hazard communication standard.

12. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not an RCRA "listed" or "characteristic" hazardous waste. Use which results in chemical or physical change or contamination may subject it to hazardous waste regulations.

13. TRANSPORT INFORMATION

Hazard Class or Division: Not classified as hazardous.

14. REGULATORY INFORMATION

This material contains the following chemicals subject to the reporting requirements of SARA Section 313 and 40 CFR 372 and 370.2:
Zinc Oxide, CAS No. 1314-13-2

15. DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the issue date. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy or completeness of this information, the results to be obtained from the use thereof, the safety of this product or the hazards related to its use, or that such use does not infringe any patent. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk thereof.