

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: THERMALCOTE I

GENERAL USE: Heat transfer compound

PRODUCT DESCRIPTION: White paste, mild characteristic odor



**AAVID
THERMALLOY**

MANUFACTURER'S NAME

Aavid Thermalloy, LLC.

DATE PREPARED: September 22, 2007

SUPERSEDES: February 3, 2005

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ADDRESS (NUMBER, STREET, P.O. BOX)

70 Commercial St.

TELEPHONE NUMBER FOR INFORMATION

(603) 527-2292

(CITY, STATE AND ZIP CODE)

Concord, NH 03301

COUNTRY

USA

EMERGENCY TELEPHONE NUMBER

ChemTel Inc. 1- (800) 255-3924 Intl. + 01 (813) 248-0585

DISTRIBUTOR'S NAME

Same

ADDRESS (NUMBER, STREET, P.O. BOX)

TELEPHONE NUMBER FOR INFORMATION

(CITY, STATE AND ZIP CODE)

COUNTRY

EMERGENCY TELEPHONE NUMBER

SECTION 2 - HAZARDOUS INGREDIENTS

| HAZARDOUS COMPONENTS | CAS # | % (by weight) | OSHA PEL | | ACGIH TWA | | SARA TITLE III | RQ LBS |
|--------------------------|------------|------------------|-----------------|-------|-----------|-------|-------------------|-----------|
| | | | PPM | MG/M3 | PPM | MG/M3 | | |
| Polydimethylsiloxane (b) | 63148-62-9 | 30 - 60 | not established | | | | | |
| Zinc oxide (as zinc) (a) | 1314-13-2 | 30 - 60 | 15 | | 10 | | Yes | |

(a) See Section 15

(b) This product is not considered a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200). However, certain regulatory agencies, government agencies or states may require the listing of this product or the product is listed only for information.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

White paste, ingestion may cause gastric distress. Exposing product to extreme heat (> 400° F, 204° C) may generate irritating fume.

Hazard symbols for this product - None. Risk Phrase - Not classified

POTENTIAL HEALTH EFFECTS

INHALATION: None expected, however, certain individuals may experience minor nausea or headaches. Breathing mists or fume may cause irritation to respiratory tract.

SKIN: None expected, however, prolonged contact may cause irritation.

EYES: Contact with eyes may cause irritation.

INGESTION: May cause gastric distress, vomiting and diarrhea.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

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| SECTION 4 - FIRST AID MEASURES | | | |
| INHALATION: Remove affected person to fresh air; if symptoms persist seek medical attention. | | | |
| SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention. | | | |
| EYES: Remove contact lenses. Flush eyes with water for 15 minutes; if irritation persists, seek medical attention. | | | |
| INGESTION: Give two glasses of water for dilution; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention. | | | |
| SECTION 5 - FIRE FIGHTING MEASURES | | | |
| FLASH POINT (METHOD USED) 610° F (321° C) Cleveland open cup ASTM-D-92 | | FLAMMABLE LIMITS AUTOIGNITION TEMPERATURE: Not determined | LEL: Not applicable UEL: Not applicable NFPA CLASS: IIIB |
| GENERAL HAZARDS: Product will support combustion. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide. | | | |
| EXTINGUISHING MEDIA Carbon dioxide, water fog, dry chemical, chemical foam | | | |
| FIRE FIGHTING PROCEDURES Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool. | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS Closed containers can explode due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface. Caution - Material will support combustion! | | | |
| HAZARDOUS COMBUSTION PRODUCTS Smoke, fumes, oxides of carbon, zinc and silicone. | | | |
| SECTION 6 - ENVIRONMENTAL RELEASE MEASURES | | | |
| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WILL SUPPORT COMBUSTION. Evacuate and ventilate area; confine and absorb into absorbent; place material into approved containers for disposal; refer to SARA Title III, Section 313 40 CFR 372 for details concerning reporting requirements. | | | |
| SECTION 7 - HANDLING AND STORAGE | | | |
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, open flames. CAUTION - This material will support combustion. Keep this and other chemicals out of reach of children. | | | |
| SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION | | | |
| ENGINEERING CONTROLS | | | |
| The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment. See Section 2 for Component Exposure Guidelines. | | | |
| PERSONAL PROTECTION: | | | |
| RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH approved respirator designed to remove airborne mists or fume present in excess of maximum allowable concentrations if user operations generate a mist or fume. Refer to 29 CFR 1910.134 or European Standard EN 149 for regulations. | | | |
| PROTECTIVE GLOVES: Recommended for general protection | | | |
| EYE PROTECTION: Recommended for general protection | | | |
| OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby | | | |
| WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general. | | | |

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| SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES | | | | |
| VAPOR PRESSURE (MM Hg) 0.12 mm Hg @ 100° C | | VAPOR DENSITY (AIR = 1) Not determined | | |
| SPECIFIC GRAVITY (WATER = 1) 1.600 | | EVAPORATION RATE (WATER = 1) Not determined | | |
| SOLUBILITY IN WATER Negligible | | FREEZING POINT Not determined | | |
| pH Not determined | | APPEARANCE AND ODOR White paste, mild characteristic odor | | |
| BOILING POINT > 500° F (> 260° C) | | PHYSICAL STATE Paste | | |
| VISCOSITY Not determined | | VOLATILE ORGANIC COMPOUNDS (Total VOC's) None | | |
| SECTION 10 - STABILITY AND REACTIVITY | | | | |
| STABILITY UNSTABLE: _____ STABLE: <input checked="" type="checkbox"/> | | CONDITIONS TO AVOID: Extreme temperatures > 400° F (204° C), open flames | | |
| INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents | | | | |
| HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, zinc and silicone, hydrocarbons, fumes, and smoke may be produced. | | | | |
| HAZARDOUS POLYMERIZATION MAY OCCUR: _____ WILL NOT OCCUR: <input checked="" type="checkbox"/> | | CONDITIONS TO AVOID: None | | |
| SECTION 11 - TOXICOLOGICAL INFORMATION | | | | |
| Hazardous Ingredients | CAS # | EINECS # | LD50 of Ingredient (Specify Species and Route) | LC50 of Ingredient (Specify Species) |
| Polydimethylsiloxane (b) | 63148-62-9 | Not found | Not established | Not established |
| Zinc oxide (as zinc) (a) | 1314-13-2 | 215-222-5 | 7950 mg / kg Oral - mouse | 2500 mg / m3 Inhalation - mouse |
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| SECTION 12 - ECOLOGICAL INFORMATION | | | | |
| No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant. | | | | |
| SECTION 13 - DISPOSAL CONSIDERATIONS | | | | |
| WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce concentrated hazardous vapors or fumes in a disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for ignitable materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway. | | | | |
| SECTION 14 - TRANSPORT INFORMATION | | | | |
| PROPER SHIPPING NAME: Not Regulated | | | | |
| HAZARD CLASS / Pack Group: None / None REFERENCE: Not Applicable IDENTIFICATION NUMBER: None LABEL: None Required | | IATA HAZARD CLASS / Pack Group: None IMDG HAZARD CLASS: None RID/ADR Dangerous Goods Code: None Canadian TDG Class / Division: None HAZARD SYMBOLS: None | | |
| Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping. | | | | |

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SECTION 15 - REGULATORY INFORMATION**TSCA (Toxic substance Control Act)**

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories

None

313 Reportable Ingredients:

(a) A "Yes" in the SARA TITLE III column in Section 2 indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (Comprehensive Response Compensation and Liability Act)

None

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: Not controlled

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

EC Risk Phrases

Not classified

EC Safety Phrases

S2 Keep out of the reach of children.

CALIFORNIA PROP 65

The following ingredients are present in this product at less than 0.05% and known to the state of California to cause cancer: Lead and Cadmium.

The following ingredients are present in this product at less than 0.05% and known to the state of California to cause reproductive toxicity: Lead and Cadmium.

SECTION 16 - OTHER INFORMATION

No specific notes.

HMIS HAZARD RATINGS

| | | | |
|-----------------|---|---------------------------|--------------|
| HEALTH | 0 | * = Chronic Health Hazard | 2 = MODERATE |
| FLAMMABILITY | 0 | 0 = INSIGNIFICANT | 3 = HIGH |
| PHYSICAL HAZARD | 0 | 1 = SLIGHT | 4 = EXTREME |

PERSONAL PROTECTIVE EQUIPMENT A Safety Glasses

REVISION SUMMARY:

This MSDS has been revised in the following sections:
No changes

MSDS Prepared by: ChemTel Inc.
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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.