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



MANUFACTURER'S NAME		DATE PREF		er 18, 2001	Page ²	1 of 4
Aavid Thermalloy, LLC.		SUPERSED		2001	i ugo	
ADDRESS (NUMBER, STREET, P.O. BOX)			E NUMBER FOR IN	IFORMATION		
80 Commercial St. (CITY, STATE AND ZIP CODE)	COUNTRY	(603) 527-	2292 CY TELEPHONE NI			
Concord, NH 03301	USA		EL (800) 255-3924		313) 248-0	585
DISTRIBUTOR'S NAME	00/(ONEWAY	LL (000) 200 0024		515) 240 0	000
Same						
ADDRESS (NUMBER, STREET, P.O. BOX)		TELEPHON	E NUMBER FOR IN	IFORMATION		
(CITY, STATE AND ZIP CODE)	COUNTRY	EMERGENO	CY TELEPHONE NU	JMBER		
SECTION	2 - HAZARD	OUS ING	REDIENTS			
		%	OSHA PEL	ACGIH TWA	SARA	RQ
HAZARDOUS COMPONENTS	CAS #	(by weight)	PPM MG/M ³	PPM MG/M ³	TITLE III	LBS
Polydimethylsiloxane (b)	63148-62-9	30 - 60	not establish			
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 und					0). Howeve	ər,
certain regulatory agencies, government agencies or states m	nay require the listing	g of this product	or the product is listed	only for information.		
SECTION	3 - HAZARD	DS IDENT	IFICATION			
EMERGENCY OVERVIEW						
White paste, ingestion may cause gastric distress. Ex	posing product to	extreme heat	(> 400° F, 204° C) r	nay generate irritati	ng fume.	
					-	
POTENTIAL HEALTH EFFECTS						
INHALATION: None expected, however, certain individ	duals may experie	nce minor nau	sea or headaches	Breathing mists or t	fume may	021150
irritation to respiratory tract.	audis may expense		sea of fieldacties.	breating mists of	iune may	cause
SKIN: None expected, however, prolonged contact ma	ay cause irritation.					
EYES: Contact with eyes may cause irritation.						
INGESTION: May cause gastric distress, vomiting and	d diarrhea.					
CARCINOGENICITY	NTP?	No	IARC MONOGRAPHS?	No OSHA F	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)	FLAMMABLE LIMITS LE	L: Not applicable	UEL: Not appli	cable
610° F (321° C) Cleveland open cup ASTM-D-92	AUTOIGNITION TEMPERATURE	Not determined	NFPA CLASS:	IIIB
GENERAL HAZARDS: Product will support combustion	Products of combustion include co	mpounds of carbon, hy	drogen 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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December 18, 2001 SECTION 9 - PHY	SICAL AND	CHEMIC	AL PROPERTIES	
VAPOR PRESSURE (MM Hg)			SITY (AIR = 1)	
0.12 mm Hg @ 100° C		Not determ	ined ON RATE(WATER = 1)	
SPECIFIC GRAVITY (WATER = 1) 1.600		Not determ		
SOLUBILITY IN WATER		FREEZING P		
Negligible		Not determ	ined CE AND ODOR	
pH Not determined			e, mild characteristic odor	
BOILING POINT		PHYSICAL S		
> 500° F (> 260° C) VISCOSITY			RGANIC COMPOUNDS (To	
Not determined		None	INGAINE COMPOUNDS (IN	
SECTION 10) - STABILIT	Y AND F	REACTIVITY	
STABILITY UNSTABLE:		CONDITIONS		
STABLE: INCOMPATIBILITY (MATERIALS TO AVOID):	XXX	Extreme tem	peratures > 400° F (204° C), op	en flames
Strong oxidizing agents				
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:			handled and stored properly.	In case of a fire, oxides of
carbon, zinc and silicone, hydrocarbons, fumes, and sm HAZARDOUS POLYMERIZATION MAY OCCUR:	loke may be produ	CONDITIONS		
WILL NOT OCCUR:		None		
SECTION 11 -	TOXICOLO	GICAL IN		
Hazardous Ingredients	%	CAS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Polydimethylsiloxane (b)	30 - 60	63148-62-9	Not established	Not established
Zinc oxide (as zinc) (a)	30 - 60	1314-13-2	7950 mg / kg Oral - mouse	2500 mg / m3 Inhalation - mouse
SECTION 12	2 - ECOLOG	ICAL INF	ORMATION	
No data are available on the adverse effects of this mate				ailable. Based on the
chemical composition of this product it is assumed that t	the mixture can be	treated in an	acclimatized biological waste	e treatment plant system in
limited quantities. However, such treatment should be e this mixture are classified as a Marine Pollutant.	evaluated and app	roved for each	specific biological system. I	None of the ingredients in
this mixture are classified as a marine Polititant.				
SECTION 13	- DISPOSA	L CONSII	DERATIONS	
WASTE DISPOSAL METHOD: Dispose of in accordance				may produce concentrated
hazardous vapors or fumes in a disposal container crea	ting a dangerous of	environment.	Refer to "40 CFR Protection	of Environment Parts 260 -
299" for complete waste disposal regulations for ignitab			state, or Federal Environme	ental Protection Agency
before disposing of any chemicals. Do not flush to sanit				
		UKI INF	JRIVIATION	
PROPER SHIPPING NAME:	NOT Regulated			
HAZARD CLASS / Pack Group:			IATA HAZARD CLASS / Pa	
	Not Applicable		-	D CLASS: None
IDENTIFICATION NUMBER: LABEL:	None None Required		RID/ADR Dangerous Goo Canadian TDG Class	
				YMBOLS: None
Note: Transportation information provided is for referen				
TDG, and United Nations TDG information manuals for materials and methods of shipping.	uetalled regulation	is and exception	ons covening specific contain	er sizes, packaging

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SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic substance Control Act)

Components of this product are listed on the TSCA Inventory.

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

IDL (Canadian Ingredient Disclosure List

Components of this product listed on the Canadian Ingredient Disclosure List are shown in Section 2.

EINECS (European Inventory of Existing Commercial Chemical Substances

Components of this product are on the European Inventory of Existing Commercial Chemical Substances

EC Risk Phrases

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	0 = INSIGNIFICANT	3 = HIGH
	FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME
	REACTIVITY	0	2 = MODERATE	
PE	ERSONAL PROTECTIVE EQUIPMENT	А	Safety Glasses	
REVISION SUMMARY:	This MSDS has been revised in t		0	
	Section 16, addition of California	Prop	65 Information.	
MSDS Prepared b		Prop	65 Information.	
MSDS Prepared b		Prop	65 Information.	
MSDS Prepared b	y: Chem-Tel, Inc.	Prop	65 Information.	

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.