



MultiTherm 503[®] Heat Transfer Fluid

I. PRODUCT IDENTIFICATION		EFFECTIVE DATE: January 1, 2009													
		CAS Number: 68649-11-6													
TRADE NAME:	MultiTherm® 503	NFPA Hazard Identification <table><tr><td>Degree of Hazard</td><td>Hazard Rating</td></tr><tr><td>Health: 0</td><td>0 - Least</td></tr><tr><td>Fire: 1</td><td>1 - Slight</td></tr><tr><td>Reactivity: 0</td><td>2 - Moderate</td></tr><tr><td></td><td>3 - High</td></tr><tr><td></td><td>4 - Extreme</td></tr></table>		Degree of Hazard	Hazard Rating	Health: 0	0 - Least	Fire: 1	1 - Slight	Reactivity: 0	2 - Moderate		3 - High		4 - Extreme
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MANUFACTURER'S NAME:	MultiTherm LLC														
ADDRESS:	3223 Phoenixville Pike-Ste B Malvern, PA 19355 (USA)														
EMERGENCY PHONE NO.	(610) 408-8361														

II. INGREDIENTS

COMPONENT NAME	HAZARDOUS IN BLEND	<u>PERCENTAGE</u> MIN MAX	COMPONENT EXPOSURE LIMITS AS OIL MIST	UNITS
I-DECENE, DIMER, HYDROGENATED	NO	100	OSHA PEL ACGIH TLV	5mg/M3 5mg/M3

III. HEALTH EFFECT INFORMATION

EYE CONTACT	MAY BE MINIMALLY IRRITATING TO EYES ON DIRECT CONTACT.
SKIN CONTACT	MAY CAUSE SLIGHT IRRITATION ON PROLONGED OR REPEATED CONTACT.
INHALATION	NOT EXPECTED TO PRESENT AN INHALATION HAZARD AT AMBIENT CONDITIONS. AEROSOLIZATION OR MISTING SHOULD BE AVOIDED. INHALATION OF A LARGE SINGLE DOSE OR REPEATED SMALL DOSES OF MIST MAY RESULT IN RESPIRATORY IRRITATION, DIZZINESS, OR NAUSEA.
INGESTION	PRACTICALLY NON-TOXIC (LD50>2G/KG) UNLESS ASPIRATION OCCURS. ASPIRATION MAY CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.
CAUTION	PULMONARY ASPIRATION HAZARD - CAN CAUSE SEVERE OR FATAL LUNG DAMAGE IF ASPIRATED.

IV. EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT	IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER. IF IRRITATION OCCURS, SEEK MEDICAL ATTENTION.
SKIN CONTACT	WASH AREA WITH SOAP AND WATER. WASH CLOTHING BEFORE REUSE.
INHALATION	REMOVE FROM FURTHER EXPOSURE. IF RESPIRATORY IRRITATION, DIZZINESS, NAUSEA OR UNCONSCIOUSNESS OCCURS, SEEK MEDICAL ATTENTION IMMEDIATELY.
INGESTION	IMMEDIATELY GIVE 1-2 GLASSES OF WATER AND OBTAIN MEDICAL ATTENTION. DO NOT INDUCE VOMITING. IF VOMITING OCCURS, LOWER HEAD BETWEEN KNEES TO AVOID ASPIRATION.

V. PERSONAL HEALTH PROTECTION INFORMATION

EYE PROTECTION	SPLASH PROOF GOGGLES RECOMMENDED.
SKIN PROTECTION	NO SKIN PROTECTION IS REQUIRED FOR SINGLE, SHORT DURATION EXPOSURES. FOR PROLONGED OR REPEATED EXPOSURES, USE IMPERVIOUS SYNTHETIC RUBBER CLOTHING (BOOTS, GLOVES, APRONS, ETC.) OVER PARTS OF THE BODY SUBJECT TO EXPOSURE.
RESPIRATORY PROTECTION	RESPIRATORY PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF VAPOR OR MIST IS GENERATED, USE NIOSH CERTIFIED ORGANIC VAPOR RESPIRATOR WITH DUST/MIST FILTER.
VENTILATION	IF VAPOR OR MIST IS GENERATED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATION BELOW THE SPECIFIED EXPOSURE LIMITS.

MATERIAL SAFETY DATA SHEET

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VI. FIRE PROTECTION INFORMATION

FLASH POINT	310°F / 154°C	TEST METHOD	C.O.C, ASTM D-92
AUTOIGNITION TEMPERATURE	615°F / 324°C	TEST METHOD	ASTM D-2155
FLAMMABLE LIMITS IN AIR % VOL.	LOWER NO DATA	UPPER	NO DATA
EXTINGUISHING MEDIA	USE DRY CHEMICAL, FOAM, CARBON DIOXIDE, OR WATER FOG.		
SPECIAL FIRE FIGHTING PROCEDURES	WATER OR FOAM MAY CAUSE FROTHING. USE WATER TO KEEP EXPOSED CONTAINERS COOL. WATER SPRAY MAY BE USED TO FLUSH SPILL AWAY FROM EXPOSURE. PREVENT RUNOFF FROM ENTERING STEAM, SEWER OR DRINKING WATER SUPPLY.		

VII. REACTIVITY DATA

STABILITY	STABLE	CONDITIONS TO AVOID	EXTREME HEAT
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR		
INCOMPATIBILITY, MATERIALS TO AVOID	STRONG OXIDIZING AGENTS		
HAZARDOUS DECOMPOSITION PRODUCTS	NONE		

VIII. ENVIRONMENTAL

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	CONTAIN SPILL IMMEDIATELY. REMOVE ALL SOURCES OF IGNITION. ABSORB WITH APPROPRIATE INERT MATERIAL SUCH AS SAND, CLAY, ETC. DO NOT ALLOW SPILL TO ENTER SEWERS OR WATERCOURSES. NOTIFY APPROPRIATE AUTHORITIES OF SPILL.		
WASTE DISPOSAL METHOD	UNCONTAMINATED PRODUCT IS SUITABLE FOR BURNING IN APPROVED FACILITY FOR FUEL VALUE OR FOR REPROCESSING INTO LUBRICATING OIL BY A LICENSED WASTE OIL RECYCLER. USE OF THESE METHODS IS SUBJECT TO PRODUCT CONDITION AT TIME OF DISPOSAL AND APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.		
	TEST	SPECIES	CONCLUSION
AQUATIC TOXICITY	96 HR LC 50	WATER FLEA	NON-TOXIC
	96 HR LC 50	FATHEAD MINNOW	NON-TOXIC
	96 HR LC/EC 50	MYSID SHRIMP	VIRTUALLY NON-TOXIC
	96 HR LC/EC 50	SHEEPSHEAD MINNOW	VIRTUALLY NON-TOXIC

IX. HANDLING AND STORAGE

STORE IN CLOSED AND LABELED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXIDIZING MATERIALS NFPA CLASS IIIB STORAGE.

X. PHYSICAL PROPERTIES

BOILING POINT	616°F / 324°C (10% Fraction)	PERCENT VOLATILE	NIL
MELTING POINT	N/A	VAPOR DENSITY (AIR=1)	N/A
APPEARANCE	CLEAR FLUID	EVAPORATION RATE (EE=1)	N/A
ODOR	ODORLESS.	SPECIFIC GRAVITY	0.796 @ 60°F / 15°C
VAPOR PRESSURE	<. 01mm HG @ 70°F / 21°C	SOLUBILITY	SOLUBLE IN HYDRO-CARBONS, MIL IN WATER

XI. REGULATORY INFORMATION

DOT HAZARD CLASS - NOT REGULATED.

US OSHA COMMUNICATION STANDARD - PRODUCT COMPLIES WITH 29CFR 1910.1200 AND IS NOT HAZARDOUS.

SARA TITLE III (302) (304) (311) (312) (313) - NO REPORTABLE SUBSTANCES.

ALL COMPONENTS LISTED ON THE US TSCA INVENTORY.

RCRA INFORMATION: THE UNUSED PRODUCT IS NOT LISTED BY THE EPA AS A HAZARDOUS WASTE (40 CFR, PART 2610),SHOULD NOT FAIL THE CHARACTERISTICS TEST UNLESS MIXED WITH OTHER PRODUCTS WHICH WOULD CAUSE IT TO FAIL THE TEST AND IS NOT FORMULATED WITH PCB'S OR THE METALS CITED IN THE TOXICITY TEST. MSDS MultiTherm 503 (4/10/02)

WHIMIS CLASSIFICATION - NOT CONTROLLED.