

UC-Hskpg

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

IDENTITY (As Used on Label and List) **Multi-Clean Thermo II** DATE PREPARED **3/6/90**

SECTION I

MANUFACTURE'S NAME **Hako Minuteman** EMERGENCY TELEPHONE NUMBER **612-698-8833**
ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE) **2277 Ford Parkway** TELEPHONE NUMBER FOR INFORMATION **612-698-8833**
St. Paul, Minnesota 55116

SECTION II - Hazardous Ingredients/Identity Information

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	OSHA PEL	ACGIH TLV	RECOMMENDED	% (OPTIONAL)
Emulsified acrylic polymers(proprietary)	NE	NE	•NK	8-20
Emulsified polyethylene polymers(proprietary)	NE	NE	•NK	<5
*Diethylene glycol monoethylether CAS#111-90-0	NE	NE	•NK	2-7
Tri(butoxyethyl) phosphate CAS #78-51-3	NE	NE	•NK	<3
Water CAS #7732-18-5	NE	NE	•NK	>70

*Identifies materials subject to reporting under the Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 313 and 40 CFR Part 372.

SECTION III - Physical/Chemical Characteristics

BOILING POINT: **Approx. 212°F** SPECIFIC GRAVITY (H2O) = 1: **1.030**
VAPOR DENSITY (AIR = 1): **> 1** EVAPORATION RATE (BUTYL ACETATE = 1): **ND**
SOLUBILITY IN WATER: **Complete**
VAPOR PRESSURE (MM HG.): **ND** MELTING POINT: **NA**
APPEARANCE AND ODOR: **Milky white liquid, mild acrylic odor.**

SECTION IV - Fire and Explosion Hazard Data

FLASH POINT (METHOD USED): **None** FLAMMABLE LIMITS: **NA** LEL **NA** UEL **NA**
EXTINGUISHING MEDIA
WATER? **X** FOAM? **X** WATER FOG? **X** ALCOHOL FOAM? **CO2? X** DRY CHEMICAL? **X**
VAPORIZING LIQUID? **X** OTHER? **See Below**

SPECIAL FIRE FIGHTING PROCEDURES

Non-Flammable in liquid state. Material can splatter above 100°C/212°F. Polymer film can burn. Persons exposed to combustion products should wear self contained breathing apparatus and full protective equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS

There is the possibility of pressure build-up in closed containers when heated. Water spray may be used to cool the containers.

SECTION V - Reactivity Data

STABILITY: **UNSTABLE:** **CONDITIONS TO AVOID: Extreme Heat**
STABLE: X
INCOMPATIBILITY (MATERIALS TO AVOID): **Strong oxidizers**
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: **Oxides of carbon, phosphorus, toxic monomer fumes.**
HAZARDOUS POLYMERIZATION
MAY OCCUR: **CONDITIONS TO AVOID: NA**
WILL NOT OCCUR: **X**

SECTION VI - Health Hazard Data

ROUTE(S) OF ENTRY: INHALATION? **X** SKIN? **No** INGESTION? **No**

HEALTH HAZARDS (ACUTE AND CHRONIC)

Inhalation: may irritate nose, throat and respiratory tract and may cause nausea. Skin Contact: irritating to skin upon repeated or prolonged contact. Eye Contact: direct contact with product may cause eye irritation.

CARCINOGENICITY: NTP? **No** IARC MONOGRAPHS? **No** OSHA REGULATED? **No**

SIGNS AND SYMPTOMS OF EXPOSURE

See Health Hazards

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

NK

EMERGENCY AND FIRST AID PROCEDURES

If eye contact occurs, flush eye thoroughly with running water for 15 minutes. If irritation persists, see a physician. If skin contact occurs, wash area thoroughly with soap and water. Remove contaminated clothing. If ingested, do not induce vomiting. Dilute by giving two glasses of water to drink. See a physician. Never give anything by mouth to an unconscious person.

SECTION VII - Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Dike and contain spill with inert material(sand, earth, etc.) Collect spill with absorbent material(example: floor-dri) or vacuum up immediately and dispose of according to local, state and federal regulations. Thoroughly rinse affected area with water.

WASTE DISPOSAL METHOD

Solution may contain zinc. Coagulate with ferric chloride or sulfate and then lime. Decant the clear liquid to a sewer. Dispose of the coagulum by sanitary landfill or incinerator. Follow all existing pollution control ordinances.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Storage temperature; Minimum 40°F, Maximum 100°F.

OTHER PRECAUTIONS

Keep out of reach of children. Keep from freezing.

SECTION VIII - Control Measures

RESPIRATORY PROTECTION (SPECIFY TYPES)

NR

VENTILATION: LOCAL EXHAUST **NA** SPECIAL **NR**
MECHANICAL (GENERAL) Normal good ventilation sufficient. OTHER **NR**

PROTECTIVE GLOVES

Natural rubber or synthetic.

EYE PROTECTION

Approved safety goggles or glasses.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

NR

WORK/HYGIENIC PRACTICES

Wash hands after use.

NA - Not Applicable, NE - Not Established, NK - Not Known, ND - Not Determined, NR - Not Required

NOTICE STATE OF CALIFORNIA: Warning: This product contains the following chemical(s) which are known to the State of California to cause cancer. Listed chemical(s) are present at levels of less than .1%(Formaldehyde CAS #50-00-0). In addition to the listed chemical(s), other chemicals known to the State of California to cause cancer may be present as trace impurities or present in the standard industrial raw materials used in the manufacture of this product.

NFPA SYSTEM

- 1 A. Health Hazard: 4-DANGER-May be fatal on short exposure. Specialized protective equipment required; 3-WARNING-Corrosive or toxic. Avoid skin contact or inhalation; 2-WARNING-May be harmful if inhaled or absorbed; 1-CAUTION-May cause irritation; 0-No unusual hazard. *Health hazard describes short term contact or inhalation hazard only.
- 0 B. Fire Hazard: 4-DANGER-Flammable gas or extremely flammable liquid; 3-WARNING-Flammable liquid Flash point below 100°F; 2-CAUTION-Combustible liquid Flash point of 100°F to 200°F; 1-COMBUSTIBLE-If heated; 0-NOT COMBUSTIBLE.
- 0 C. Reactivity Hazard: 4-DANGER-Explosive material at room temperature; 3-DANGER-May be explosive if shocked, heated under confinement, or mixed with water; 2-WARNING-Unstable, or may react if mixed with water; 1-CAUTION-May react if heated, or mixed with water; 0-STABLE. Not reactive when mixed with water.

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