SECTION 1 - MANUFACTURER INFORMATION

MANUF/DIST : CHEM-POWER MANUFACTURING DIV./ FOSTER & CO., INC

15 Wing Drive EMERGENCY PHONE..... 973-267-4100 Cedar Knolls PREPARATION/REVISION DATE: 07/17/03

07927 NU

PREPARER/CONTACT: Gary Adams, Chemist

LOCATION : Whs 1

TRADE NAME/SYNONYMS...: METAL MASTER 11-16

CHEMICAL NAME/SYNONYMS: Water Soluble Cutting Oil

CHEMICAL FAMILY.....: Surfactant/Lubricant Solution

FORMULA..... Complex Mixture

PRODUCT CODE....: 11-06

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

HEALTH...... 2

* FLAMMABILITY.. 1

REACTIVITY.... 0

PROTECTION... B

SECTION 2 - HAZARDOUS INGREDIENTS

THIS PRODUCT CONTAINS HAZARDOUS INGREDIENTS : YES

CHEMICAL/COMMON NAME	CAS-NUMBER	%	PEL-OSHA	TLV-ACGIH
Oleic Acid	112-80-1	15-20	None est	None est
Potassium Hydroxide 45%	1310-58-3	5-10	3 mg/m3	N/I
Phosphate Ester EP Additive	39464-69-2	5-10	None	None
Isopropanol	67-63-0	5-10	400 ppm	400 ppm
EDTA, tetrasodium salt	64-02-8	1-4	N/I	N/I
0-Phenylphenol	90-43-7	<1	5mg/m3	recomend
Water	7732-18-5	50-65	none	none

THIS PRODUCT CONTAINS CARCINOGENS (NTP, IARC, or OSHA):NO

CAS-NUMBER % NTP IARC OSHA N/A N/A N/A N/A CHEMICAL/COMMON NAME N/A

SECTION 3 - HEALTH HAZARD DATA ______

HEALTH EFFECTS (Acute And Chronic) -EYES: Moderate to severe irritant.

SKIN: Severe overexposure could cause dry skin dermatitis.

INGESTION: Nausea, indigestion, vomiting.

INHALATION: Overexposure to mists could cause irritation to respiratory tract.

CHROMIC: None known.

PRIMARY ROUTES OF ENTRY-Skin, eyes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-None known.

EMERGENCY FIRST AID PROCEDURES-

EYES & SKIN: Flush with water for 15 minutes. Call physician if irritation persists.

INGESTION: Do not induce vomiting. Give large amounts of water or milk. Call physician or poison control center immediately.

SECTION 4 - CHEMICAL DATA

BOILING POINT (F)...: 212 SPECIFIC GRAVITY (WATER=1).....: 1.025 VAPOR PRESSURE (mmHg): N/I PERCENT VOLATILE BY VOLUME (%)......: 70-80 VAPOR DENSITY (AIR=1): N/I EVAPORATION RATE (water =1): < 1

SOLUBILITY IN WATER-Complete.

APPEARANCE AND ODOR INFORMATION-Clear light amber liquid with oleate odor.

SECTION 5 - PHYSICAL HAZARD DATA

FLASH POINT (Method Used): >180 F boil FLAMMABLE LIMITS : Lel=N/A UEL=N/A

EXTINGUISHING MEDIA-

Alcohol foam, CO2, dry chemical. water fog.

SPECIAL FIRE FIGHTING PROCEDURES-

Vapors of boiling Winter Formula are combustible. Cool below boiling Keep containers cool to prevent explosion.

UNUSUAL FIRE AND EXPLOSION HAZARDS-Residue after evaporation is combustible.

INCOMPATIBILITY (Materials To Avoid) Acids.

HAZARDOUS DECOMPOSITION PRODUCTS-None known.

WILL HAZARDOUS POLYMERIZATION OCCUR-No.

CONDITIONS TO AVOID FOR POLYMERIZATION-None known.

IS THE PRODUCT STABLE-Yes.

CONDITIONS TO AVOID FOR STABILITY-None known.

SECTION 6 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED-Spills are slippery. Dike and soak up with suitable absorbent. Flush residue with water to sewer. Prevent contamination of ground water.

WASTE DISPOSAL METHODS-Consult local authorities.

SECTION 7 - EXPOSURE CONTROL INFORMATION

VENTILATION-

LOCAL EXHAUST: N/A MECHANICAL (General): Maintain TLV

SPECIAL....: N/A OTHER...... N/A

RESPIRATORY PROTECTION-

Not normally needed, NOISH approved if necessary.

PROTECTIVE GLOVES-Rubber.

OTHER PROTECTIVE EQUIPMENT-Splashproof goggles.

OTHER ENGINEERING CONTROLS-N/A

WORK PRACTICES-N/I

HYGIENIC PRACTICES-

Wash hands before eating or using lavatory facilities.

SECTION 8 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE-Keep from repeated freeze-thaw cycles.

MAINTENANCE PRECAUTIONS-

Do not hold winter and summer formulas over to other seasons.

OTHER PRECAUTIONS - KEEP OUT OF REACH OF CHILDREN!

ADDITIONAL COMMENTS-

Shipping Name: Cleaning Compound, Non-Hazardous. Class 55. FOR TRANSPORTATION EMERGENCY ONLY, CALL INFOTRAC 1-800-535-5053 24 $h\,r/7$ days.