Dear Customer:

Enclosed is the REVISED Material Safety Data Sheet for our product:

**D-M-E – SELF-LUBRICATING BUSHINGS**

The products we distribute are not normally hazardous in their natural state. However, steel does contain elements deemed by OSHA to be hazardous when released by manufacturing, such as brazing, burning, grinding, sawing or welding, etc. Failure to control dust and fumes can result in chronic health problems.

We believe the information, supplied by the Manufacturer, on the enclosed MSDS to be accurate; however, D-M-E makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability for the information so presented.

Should you require additional information, please call or write the Manufacturer listed on the MSDS.

Sincerely yours,

D-M-E Company
Director of Operations
Ken Jasina

Revised: May 2005
MATERIAL SAFETY DATA SHEET

DATE ISSUED-NOVEMBER 1, 2003

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BRONZE PLATED ON STEEL PRODUCTS

MOLD BUSHINGS  METRIC L-GBBS
EJECTOR BUSHINGS  VEE-GBBS
SHOULDER BUSHINGS  METRIC VEE-GBBS
GUIDE BAR BUSHINGS  SIDE PLATES
GUIDE PIN BUSHINGS  METRIC SIDE PLATES
STRIPPER GUIDE BUSHINGS  WEAR PLATES
RUNNING FIT BUSHINGS  METRIC WEAR PLATES
L-GBBS
SUPPLIER: LAMINA INC.
3650 SOUTH DERENZY ROAD
BELLAIRE, MI 49615
24 - Hour Emergency  231-533-8646
Product and MSDS Information:  231-533-8646

SECTION 2. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Steel, bronze products under normal circumstances do not present an inhalation, skin contact, or ingestion hazard and are considered environmentally safe. Processes such as burning, cutting, welding, brazing, grinding etc. that elevate the temperature of the product or produce dust may create elevated concentrations of contaminants.

HAZARDOUS COMPONENTS  CAS No.  OSHA PEL  % WT.  ACGIH TLV
mg/m(3)  mg/m(3)
IRON  7439-89-6  10  98  5
CARBON  7440-44-0  15-Dust  <1  10
MANGANESE  7439-96-5  5  <1  5
PHOSPHORUS  7723-14-0  0.1  <1  0.1
SULFUR  7704-34-9  15  <1  10
COPPER  7440-50-9  0.1-Fume  <1  0.2-Fume
1-Dust, mist  1-Dust
TIN  7440-31-5  2  <1  2

SECTION 3. PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT
BRONZE, ABOUT 4500 DEGREES F, 2,482 DEGREES C
STEEL, ABOUT 5000 DEGREES F, 2,760 DEGREES C
SPECIFIC GRAVITY (H-2-0 =1)
BRONZE, 8.8
STEEL, 7.8
VAPOR PRESSURE(mm hG): N/A
VAPOR DENSITY (AIR =1): N/A
SOLUBILITY IN WATER: INSOLUBLE (LESS THAN 1%)
MELTING POINT
BRONZE, ABOUT 1800 DEGREES F, 982 DEGREES C
STEEL, 2750 DEGREES F, 1510 DEGREES C
SOLUBILITY IN WATER: NOT SOLUBLE
APPEARANCE AND ODOR:
SECTION 4. FIRE AND EXPLOSION DATA

FLASH POINT: N/A  FLAMMABLE LIMITS: N/A  LEL: N/A  UEL: N/A
STEEL AND BRONZE PRODUCTS ARE NOT FLAMMABLE AND DO NOT CONTRIBUTE TO THE
COMBUSTION OF OTHER MATERIALS. USE FIRE FIGHTING TECHNIQUES OR AGENTS APPLICABLE TO
SURROUNDING MATERIALS.

SPECIAL FIRE FIGHTING PROCEDURES
N/A EXCEPT FOR DUST FROM MACHINING PRODUCT, PREVENT FORMATION OF A DUST CLOUD (MAY
BE EXPLOSIVE). DO NOT USE HALOGENATED AGENTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
N/A EXCEPT FOR DUST FROM MACHINING PRODUCT. DUST CAN BE AN EXPLOSION HAZARD,
ESPECIALLY WHEN HEATED, AND WHEN EXPOSED TO ACETYLENE OR MAGNESIUM METAL.

SECTION 5. REACTIVITY DATA

STABILITY: CONSIDERED STABLE UNDER CONDITIONS OF USE, STORAGE AND TRANSPORTATION.
INCOMPATIBILITY: [MATERIALS TO AVOID] PRODUCT-ACETYLENE GAS AND STRONG ACIDS. DUST
FROM MACHINING PRODUCT-MAGNESIUM METAL, ORGANIC ACIDS, STRONG OXIDIZING AGENTS,
WATER.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: METAL FUME, COPPER OXIDE, TIN OXIDE.
HAZARDOUS DECOMPOSITION WILL NOT OCCUR.

SECTION 6. HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION SKIN INGESTION

HEALTH HAZARDS
PRODUCT          NO    YES    YES
MACHINING DUST   YES   YES    YES

CARCINOGENICITY: N/A  NPT? N/A  MONOGRAPHS? N/A

SIGNS AND SYMPTOMS OF EXPOSURE: N/A EXCEPT FOR DUST FROM MACHINING PRODUCT. DUST MAY
IRRITATE EYES. EXCESSIVE INHALATION OF DUST IS IRRITATING AND MAY BE DAMAGEING TO
RESPIRATORY PASSAGES AND OR LUNGS. CHRONIC EFFECTS INCLUDE IRRITATION OF SKIN, NOSE,
THROAT AND LUNGS, METALLIC TASTE, NAUSEA, PNEUMOCONIOS, METAL FUME FEVER, SKIN AND
HAIR DISCOLORATION.

EMERGENCY AND FIRST AID PROCEDURES:
INHALATION: IN THE EVENT OF EXCESSIVE EXPOSURE TO DUST OR FUME, REMOVE EMPLOYEE TO
FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER ARTIFICIAL RESPIRATION OR OXYGEN. OBTAIN
IMMEDIATE MEDICAL ASSISTANCE.
SKIN: ABRASIONS AND CUTS SHOULD BE WASHED AND CLOSED BY A CLEAN COMRESS AND BE
IMMEDIATELY MEDICALLY TREATED. BURNS SHOULD BE IMMEDIATELY MEDICALLY TREATED. SHOULD
SKIN IRRITATION OCCUR WASH AFFECTED AREA WITH MILD SOAP AND RINSE WITH CLEAN, WARM
WATER.
EYES: DEPENDING UPON THE TYPE AND NATURE OF EXPOSURE, RELIEF MAY BE OBTAINED BY FRESH
AIR OR BY RINSING THE EYES WITH FRESH WATER. OBTAIN MEDICAL ASSISTANCE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: PERSONS WITH A PREDISPOSITION TO
RESPIRATORY DISORDERS (I.E., ASTHMA, EMMYSEMA, ETC.) MAY BE ADVERSELY AFFECTED BY
PARTICULATES OR RESPIRATORY IRRITANTS GENERATED DURING THE MANUFACTURING PROCESS.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: BE ALERT TO SHARP EDGES SLIPPERY
SURFACES WHEN HANDLING, AND UNSECURED LIFTS. STEPS SHOULD BE TAKEN IN CASE MATERIAL IS
SPILLED OR RELEASED. STEEL PRODUCTS ARE STABLE BUT MASSIVE AND CAN EASILY DESTROY
OBJECTS IN THEIR PATH. IF PRODUCT IS SPILLED IT SHOULD BE DETERMINED IF ANY UTILITIES,
(POWER, WATER, OR GAS), PERSONS, OR VEHICLES ARE INVOLVED. DUST FROM MACHINING PRODUCT
SHOULD BE PICKED UP FOR LATER DISPOSAL.
RECYCLE OR DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL
REGULATIONS.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE AND WITH
Adequate Ventilation.
RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE WITH ADEQUATE VENTILATION. WHEN CONTROLS ARE NOT SUFFICIENT TO REDUCE THE EXPOSURE BELOW THE APPLICABLE EXPOSURE LIMIT THEN USE MIVSH APPROVED RESPIRATORY PROTECTION WITHIN THE LIMITS OF THE RESPIRATOR.

EYE PROTECTION: NORMAL INDUSTRIAL EYE PROTECTION, SAFETY GLASSES, AND SIDE SHIELDS, GOGGLES, HELMET, FACE SHIELD AS APPROPRIATE TO OPERATION.

SKIN PROTECTION: APPROPRIATE PRECAUTIONS SHOULD BE TAKEN, WEAR PROTECTIVE GLOVES, CLOTHING TO PROTECT FROM OILY SURFACES, SHARP EDGES.

THIS INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USERS SHOULD MAKE THEIR OWN INVESTIGATION TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES.