



Material Safety Data Sheet (MSDS)

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MSDS #: EM10095
Revision 2

SECTION 1 – COMPANY AND PRODUCT IDENTIFICATION:

Product Name: **ECOMold®**

Company Identification

ECOMold Products, LLC
5350 S. Kirkwood Avenue
Cudahy, WI 53110

Fax (414) 476-9881
Tele (414) 431-0223

SECTION 2 – COMPOSITION/INFORMATION ON CHEMICAL COMPOSITION:

| <u>Chemical</u> | <u>CAS #</u> | <u>% Weight</u> | Occupational Exposure Limits (Mg / Ms) <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|-----------------|--------------|-----------------|--|-----------------------------|
| *Copper (Cu) | 7440-50-8 | 50.9 – 99.9 | 0.1 (fume) | 0.2 (fume) |
| **Zinc (Zn) | 7440-66-6 | 0 – 10 | 5 (fume) | 5 fume 10 (dust) |
| *Nickel (Ni) | 7440-02-0 | 0 - 20 | 1.0 (fume) | 0.5 (fume) |
| **Aluminum (Al) | 7429-90-5 | 0 - 15 | 15 (tot. dust) | 5 (Weld fumes) |
| Tin (Sn) | 7440-31-5 | 0 – 7 | 2 (Sn) | 2 (Sn) |
| Iron (Fe) | 7439-89-6 | 0 - 7 | 10 (oxide, dust & fumes) | 10 (oxide, dust & fumes) |
| Manganese (Mn) | 7439-96-5 | 0 – 5 | 5 (fume) | 0.02 (Mn) |
| Silicon (Si) | 7440-21-3 | 0 – 5 | 15 (dust) | 10 (inhaled dust) |
| Chromium | 7440-47-3 | 0 – 2 | 1 (fume) | .05 (dust) |
| *Cobalt (Co) | 7440-48-4 | 0 – 3 | 0.01 (Co) | 0.02 (Co) |

* Chemicals capable of generating high toxic fumes or dusts.

** Chemicals which are classified as toxic by EPA in 40 CFR 372.65 and subject to reporting requirements of SARA Title III section 313 and 40 CFR 372.

SECTION 3 – HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW: Brass and Copper alloys in their solid state present no inhalation, ingestion or contact health hazards. However, inhaling dust, fumes or mist which may be generated during certain manufacturing procedures (burning, melting, welding, sawing, brazing, grinding and machining) may be hazardous to your health. Dust may also be irritating to the unprotected skin or eyes.

ACUTE EFFECTS: Excessive exposure to dust / fumes may cause irritation of eyes, nose or throat. Inhalation of dust / fumes may result in metal fume fever (metallic taste in mouth, dryness and irritation of throat, chills and fever).

CHRONIC EFFECTS: Prolonged inhalation of fumes or dust may cause a variety of adverse health effects to the respiratory system, including (but not necessarily limited to) lesions of the mucous membrane, bronchitis, pneumonia and cancers of the nasal cavity and respiratory tract.

POTENTIAL HEALTH EFFECTS/MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Any pre-existing chronic respiratory condition (asthma, chronic bronchitis, emphysema).

ROUTES OF ENTRY: Inhalation (dust, fumes, mists), contact with skin and eyes (dust / mists), ingestion (dusts).

SECTION 4 – FIRST AID MEASURES:

INHALATION: Immediately remove victim to fresh air. If condition persists, consult physician.

EYE CONTACT: Immediately flush with running water to remove particulates, consult physician.

SKIN CONTACT: If irritation develops, remove clothing and wash with soap and water. If condition persists, consult physician.

INGESTION: Consult physician.

NOTE TO PHYSICIAN: None.

SECTION 5 – FIRE FIGHTING MEASURES:

FLASH POINT: Nonflammable.

SPECIAL FIRE FIGHTING INSTRUCTION AND EQUIPMENT: None required.

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: Nonflammable.

EXTINGUISHING MEDIA: Use what is appropriate for surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

SECTION 6 – ACCIDENTAL RELEASE MEASURES:

CLEAN UP PROCEDURES: No special procedures needed.

SPECIALIZED EQUIPMENT: None.

SECTION 7 – HANDLING AND STORAGE:

PROCAUTIONS TO BE TAKEN IN HANDLING: Minimize activities that may generate dust, mist or fumes. Keep areas well ventilated. Use suitable equipment to move materials.

PROCAUTIONS TO BE TAKEN IN STORAGE: None required.

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION:

RESPIRATORY PROTECTION: Wear NIOSH approved dust/mist/fume respirator when welding or burning this metal.

EYE/FACE PROTECTION: Face shields (welding or burning), safety glasses (cutting or grinding).

OTHER PROTECTIVE EQUIPMENT: Use appropriate protective clothing such as welding aprons and gloves when welding or burning.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES:

| | |
|-----------------------|--|
| APPEARANCE: Metal | VAPOR PREASURE: N/A |
| ODOR: Odorless | BOILING POINT: N/A |
| PHYSICAL STATE: Solid | SOLUBILITY IN WATER: Insoluble |
| VAPOR PREASURE: N/A | SPECIFIC GRAVITY: (H2O=1): 7.50 – 8.95 |

SECTION 10 – STABILITY AND REACTIVITY:

STABILITY: Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None.

HAZARDOUS DECOMPOSITION PRODUCTS (when heated): None.

MATERIALS TO AVOID: Strong acids (such as Sulfuric, Hydrochloric, Nitric).

SECTION 11 - TOXICOLOGY INFORMATION:

LETHAL CONCENTRATION (LC50): None established.

REPRODUCTIVE EFFECTS: N/A.

LETHAL DOSE (LD50): N/A.

MUTAGENICITY: N/A

TERATOGENICITY: N/A

CARCINOGENIC BY NTP, IARC or OSHA: No

SECTION 12 – ECOLOGICAL INFORMATION:

No adverse ecological effects are expected.

SECTION 13 – DISPOSAL CONSIDERATIONS:

WASTE DESPOSAL MATHODS: Recycle scrap materials through scrap dealers and brokers. Dispose of used non-cyclable materials in accordance with local, state and federal regulations.

SECTION 14 – TRANSPORT INFORMATION:

No special DOT regulations pertaining to this material.

SECTION 15 – REGULATORY INFORMATION:

SARA: Some components of this product are classified as toxic by the EPA in 40 CFR 372.65 and subject to reporting requirements of SARA Title III Section 313 and 40 CFR 372.45.

SECTION 16 – OTHER INFORMATION:

OTHER PRECAUTIONS: Take appropriate precautions when moving or shipping this material to prevent injury to personnel handling it.

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