1. Identification
Product Identifier: Lead Coated Copper Flashing
Manufacturer: Hohmann & Barnard, Inc.
30 Rasons Court
Hauppauge, NY 11788
(631) 234-0600
www.h-b.com

2. Hazards Identification
HAZARDS OVERVIEW:
There are no chemical hazards from these sheets in solid form.
Machining, grinding, flame cutting, or welding of the flashing will put contaminants, primarily copper and lead, in the air.
Fumes and dusts from the flashing irritate the nose and throat. If too much fume is inhaled, it will cause a sweet or metallic taste in the mouth. High Concentrations of the fumes can also cause metal fume fever, which resembles the flu.
Breathing or swallowing lead dust or fume from the casting can result in lead poisoning. The effects are fatigue, headache, loss of appetite, aching bones and muscular weakness. Overexposure for a long time can cause kidney damage, nervous system damage, reproductive effects, and anemia.
Because of this potential hazard from metal dust and fumes, grinding, welding operations, etc., should be done under local exhaust ventilation. If ventilation is not adequate, wear a NIOSH approved dust and fume respirator. In addition, good hygiene practices should be followed. Smoking should not be allowed in lead handling areas. Wash hands thoroughly before eating. Keep work area clean.

CARCINOGEN CLASSIFICATION
<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA</th>
<th>NTP</th>
<th>IARC</th>
<th>TARGET ORGAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>N</td>
<td>N</td>
<td>2B</td>
<td>Lung, stomach, kidney</td>
</tr>
</tbody>
</table>

Y - Listed as a human carcinogen; N - Not listed as a human carcinogen.
Code for IARC (International Agency for Research on Cancer) evidence for human carcinogenicity:
1 = positive; 2A = probable; 2B = possible; 3 = not classified; 4 = probably negative.
Elements having a listed percentage greater than zero will be present in all grades. Those having a value of “0” may not be present in certain grades.
*This constituent, a toxic chemical, makes this product subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. Quantity and threshold amounts are 25,000 pounds for manufacturing, importing or processing and 10,000 pounds for otherwise using the listed chemical. Chemicals marked ** are reportable only if in the form of dust or fume.

3. Composition/Information on Ingredients
<table>
<thead>
<tr>
<th>Ingredient Name (Common Name)</th>
<th>CAS Number</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>99.9</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>15 lbs. max. per 100 ft. of copper surface</td>
</tr>
</tbody>
</table>

4. First-Aid Measures
Skin: Flush thoroughly with water.
Eyes: Flush with water, call Physician.
Ingestion: call Physician.
Inhalation: remove victim to fresh air, call Physician.
Copper Fume, dusts and mists are listed to OSHA as air contaminants.

5. Fire-fighting measures
SAFETY DATA SHEET

National Fire Protection Association (NFPA) - Hazard Identification:
Health-0 Flammability-1 Reactivity-0

Flammable or Explosive Limits: N/A

Extinguishing Media and Fire Fighting Procedures: Foam, Carbon dioxide, dry chemical or water. Do not direct water on substance Water and foam may cause frothing.

Decomposition Products Under Fire Conditions: Carbon monoxide and dioxide, oxides of nitrogen and sulphur and hydrocarbon. Hydrogen sulfide gas (H2S) may be generated (see section 2 of this MSDS for more H2S information) when and if the product is heated above 450º F or if the product incurs fire conditions.

“Empty” Container Warning: N/A

6. Accidental release measures
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Dust or Fume – wear respirator follow OSHA use instructions, shovel up, or vacuum and place in approved DOT container and seal. Wash contaminated clothing.

7. Handling and storage
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Preclude from exposure to fume and dust those fumes.
Do not eat or smoke while handling.
Avoid breathing dust or fumes. Do not take internally.

8. Exposure controls/personal protection
Ventilation (Local Exhaust): Dust/fume – if exposure levels exceeded.
Respiratory Protection: dust or fume – NIOSH/MSHA approved
Protective Gloves: Use chemical-resistant gloves, if needed.
Eye Protection: (dust) goggles.
Personal Hygiene: Cleanse skin thoroughly after contact, before breaks and meals, and at the end of work period.

CHEMICAL NAME (Common Name) | CAS Number | OSHA (PEL) | ACGIH (TLV)
--- | --- | --- | ---
Copper Dust | 7440-50-8 | TWA = 1 mg/m³ | TWA = 1 mg/m³
Copper Fume | 7440-50-8 | TWA = 0.1 mg/m³ | TWA = 0.2 mg/m³
Lead | 7439-92-1 | TWA = 50 mg/m³ | TWA = 0.15 mg/m³

* Amounts of fume and dust depend upon method of handling and heating.

9. Physical and chemical properties
Physical State: Solid
Odor: Odorless
pH: Not applicable
MELTING: Copper 1949º F, lead 621ºF
Solubility in Water: Negligible
Flash Point (Method Used) Not applicable*

Appearance: Reddish Yellow
Odor Threshold: Not applicable
Evaporation Rate: Not applicable
Vapor Pressure (mm Hg): Not Applicable
Specific Gravity (H₂O = 1) Copper 8.9 lead 11.0

10. Stability and reactivity
STABILITY: Stable
HAZARDOUS DECOMPOSITION: Copper Fume/dust, Lead Fume/dust.
HAZARDOUS POLYMERIZATION: Will not occur.
Incompatibility (Material to Avoid): (Dust & Fume) acetylene, chlorine.

11. Toxilogical information
ACUTE EFFECTS: If material comes in contact with the eyes, it may cause irritation. If material comes in contact with skin, it may cause irritation. If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.


Additional toxicological information: Carcinogenic.

12. Ecological Information
13. Disposal Considerations

DISPOSAL INSTRUCTIONS: Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Follow federal, state and local regulations for disposal.

14. Transport Information

In Accordance with DOT: Not regulated for transport
In Accordance with IMDG: Not regulated for transport
In Accordance with IATA: Not regulated for transport
In Accordance with TDG: Not regulated for transport

15. Regulatory Information

US Federal Regulations
- Copper (7440-50-8):
  - Listed on the United States TSCA (Toxic Substances Control Act) inventory
  - Listed on United States SARA Section 313
  - SARA Section 313 - Emission Reporting 1.0 %
- Lead (7439-92-1):
  - Listed on the United States TSCA (Toxic Substances Control Act) inventory
  - Listed on United States SARA Section 313
  - SARA Section 313 - Emission Reporting 0.1 %

US State Regulations
- Lead (7439-92-1):
  - U.S. - California - Proposition 65 - Carcinogens List
  - WARNING: This product contains chemicals known to the State of California to cause cancer.
  - U.S. - California - Proposition 65 - Developmental Toxicity
  - WARNING: This product contains chemicals known to the State of California to cause birth defects.
  - U.S. - California - Proposition 65 - Reproductive Toxicity - Female
  - WARNING: This product contains chemicals known to the State of California to cause (Female) reproductive harm.
  - U.S. - California - Proposition 65 - Reproductive Toxicity - Male
  - WARNING: This product contains chemicals known to the State of California to cause (Male) reproductive harm.
- Copper (7440-50-8):
  - U.S. - Massachusetts - Right To Know List
  - U.S. - New Jersey - Right to Know Hazardous Substance List
  - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
  - U.S. - Pennsylvania - RTK (Right to Know) List

Canadian Regulations
- C38000:
  - WHMIS Classification Uncontrolled product according to WHMIS classification criteria
- Copper (7440-50-8):
  - Listed on the Canadian DSL (Domestic Substances List)
  - Listed on the Canadian IDL (Ingredient Disclosure List)
  - IDL Concentration 1 %
  - WHMIS Classification Uncontrolled product according to WHMIS classification criteria
- Lead (7439-92-1):
  - Listed on the Canadian DSL (Domestic Substances List)
  - Listed on the Canadian IDL (Ingredient Disclosure List)
  - IDL Concentration 0.1 %
  - WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
  - Class D Division 2 Subdivision B - Toxic material causing other toxic effects
16. Other information
Issue Date: May 31, 2015
Revision Date: May 31, 2015

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