

**Hohmann & Barnard, Inc.**  
**Material Safety Data Sheet**  
**\*\*\* Copper Flashing & Mastic \*\*\***

Hohmann & Barnard, Inc.  
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**A. IDENTIFICATION AND EMERGENCY INFORMATION**

**Product Name:** Copper Flashing  
**Chemical Name:** N/A      **CAS Number:** N/A, complex mixture  
**Product Appearance and Odor:** Solid with very slight petroleum hydrocarbon odor.  
**MSDS Code No.:** 5100.0

**B. COMPONENTS AND HAZARD INFORMATION**

COMPONENTS	CAS NO.	ACGIH TLV	APPROX. WT% CONCENTRATION
Copper	7440-50-8	N/A	85%
Fiberglass Fabric	65997-17-3	10 mg/m <sup>3</sup> (dust)*	5%
Petroleum Asphalt	8052-42-4	5 mg/m <sup>3</sup> (fume)*	10%

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

**Hazardous Material Identification System:**

(HMIS RATING) Health-1 Flammability-2 Reactivity-0

Hazard Ranking: 0-Least 1-Slight 2-Moderate 3-High 4-Extreme

**C. PRIMARY ROUTES OF ENTRY AND EMERGENCY FIRST AID PROCEDURES**

**Eye Contact:** Asphalt components, fibers and fillers can cause severe irritation, redness, tearing and blurred vision. Flush with large amounts of water for at least 15 minutes.

**GET MEDICAL ATTENTION.**

**Skin:** Possible mechanical irritant. Wash with soap and water or use waterless hand cleaner. Do not use solvents or thinners to clean skin. If irritation persists, **SEEK MEDICAL ATTENTION.**

**Inhalation:** Possible respiratory irritant. Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. **SEEK MEDICAL ATTENTION.**

**Ingestion:** An irritant. If victim is conscious, give liquids. **DO NOT INDUCE VOMITING. TRANSPORT TO HOSPITAL IMMEDIATELY. GET MEDICAL ATTENTION IMMEDIATELY.**

#### **D. FIRE AND EXPLOSION HAZARD INFORMATION**

**Flash Point:** Greater than 450° F

**Autoignition Temperature:** Greater than 905° F

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

**Handling Precautions:** Keep containers cool, dry and away from sources of ignition.

**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 (H<sub>2</sub>S) may be generated (see section E of this MSDS for more H<sub>2</sub>S information) when and if the product is heated above 450° F or if the product incurs fire conditions.

**“Empty” Container Warning:** N/A

#### **E. HEALTH AND HAZARD INFORMATION**

**Variability Among Individuals:** Health studies have shown that individual sensitivities vary from person to person. As a precaution, exposure to vapors, liquids, mists, or fumes should be minimized.

**Effects of Overexposure:** Not known.

**Nature of Hazard and Toxicity Information:**

**IARC:** In March 1987, the International Agency for Research on Cancer (IARC) classified extracts of steam and air refined bitumens (such as cutback asphalts) as possibly carcinogenic to humans (Group 2B). This classification was based on a combined evaluation of published human and animal studies. IARC concluded that the human studies did not provide adequate evidence that extracts of steam and air-refined bitumens caused cancer in humans. No epidemiological study of workers exposed only to bitumens is available. The 2B classification was substantially based on experimental animal studies.

**ACGIH, NTP, OSHA:** No components listed as carcinogens hydrocarbons which have been shown.

**WARNING:** Hydrogen sulfide (H<sub>2</sub>S), an extremely flammable, colorless, highly toxic gas, is emitted from heated (above 450° F) asphalt and may accumulate in storage tanks and bulk transport compartments. Prolonged breathing (greater than 1 hour) of concentrations of H<sub>2</sub>S around 50 ppm can produce eye and respiratory tract (mouth, nose and throat) irritation, and at high concentration (around 100 ppm) can result in rapid unconsciousness and death.

Since the sense of smell becomes rapidly insensitive to H<sub>2</sub>S, its odor cannot be relied upon as an indicator of its concentration. Always use caution when working around closed bulk containers of asphalt. Use ventilation or work upwind from sources of fumes or vapors. Use supplied air respirators or self-contained breathing apparatus if the PEL or TLV for H<sub>2</sub>S is exceeded.

**Pre-existing Medical Conditions Which May be Aggravated by Exposure:**

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Persons with a history of chronic skin or respiratory disorders may be at increased risk for worsening their conditions from exposure to this product.

**F. PHYSICAL DATA**

The following are approximate or typical values and should not be used for precise design purposes:

**Boiling Range:** >450° F for Asphalt

**Vapor Pressure:** N/A

**Specific Gravity:** Greater than 1.00 for product

**Vapor Density:** N/A

**Molecular Weight:** N/A, complex mixture

**Percent Volatile by Volume:** N/A

**pH:** Not determined

**Solubility in Water @ ATM and 77° F:** Insoluble

**Evaporation Rate:** N/A

**Viscosity:** N/A, A composite sheet, a solid

**G. REACTIVITY**

Stability: \_\_\_\_\_ unstable        X   stable

Upon heating above 450° F hydrogen sulfide gas (H<sub>2</sub>S) may be generated. See section E of this MSDS for more information on H<sub>2</sub>S.

**Hazardous Polymerization:** \_\_\_\_\_ may occur        X   will not occur

**Hazardous Decomposition Products:** Carbon monoxide and dioxide, oxides of nitrogen and sulphur, hydrocarbons from combustions.

**Incompatibility (Material to Avoid):** Avoid contact with strong oxidizing agents such as: liquid chlorine, concentrated oxygen, sodium or calcium, hypochlorite.

**Conditions to Avoid:** Avoid all sources of ignition.

## H. ENVIRONMENTAL INFORMATION

**Steps to be taken if spilled or released:** ASSURE CONFORMITY WITH APPLICABLE GOVERNMENTAL REGULATIONS.

**Reportable Quantity (RQ), EPA Regulation 40 CFR 302: (CERCLA Section 102):**  
Not established.

**Threshold Planning Quantity (TPO), EPA Regulation 40 CFR 355: (SARA Section 301-304):** Not Established.

**Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372: (SARA Section 3131):** None present in reportable quantities, less than 1%.

### **EPA Hazard Classification Code:**

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard	Not Applicable
					XXX

## I. PROTECTION AND PRECAUTIONS

**Ventilation:** Normal ventilation is usually adequate.

**Respiratory Protection:** Not normally required. If required, use NIOSH approved dust respirator.

**Protective Gloves:** Use chemical-resistant gloves, if needed.

**Eye Protection:** Use safety glasses, splash goggles or face shield when eye contact may occur.

**Other Protective Equipment:** Use chemical-resistant apron or other impervious clothing, if needed.

**Work Practices/Engineering Controls:** DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS.

**Personal Hygiene:** Cleanse skin thoroughly after contact, before breaks and meals, and at the end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

**J. TRANSPORTATION AND OSHA LABEL INFORMATION**

**Transportation Incident Information:** For further information relative to spills resulting from transporting incidents, refer to latest Department of Transportation Guidebook for Hazardous Materials Incidents, DOT P 5800.3

**DOT Identification Number:** Not designated as a hazardous material by Federal DOT.

**OSHA REQUIRED LABEL INFORMATION:** In compliance with hazard and right-to-know requirements, the following OSHA Hazard Warnings should be found on a label, bill of lading or invoice accompanying this product. **CAUTION! CONTAINS PETROLEUM ASPHALT!**

**K. OTHER**

The information and recommendations contained herein are to the best of Hohmann & Barnard's knowledge and belief, accurate and reliable as of the date issued. Hohmann & Barnard does not warrant or guarantee their accuracy or reliability, and Hohmann & Barnard shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the user's responsibility to make certain that it is relying upon the most recent, updated information and recommendations available from Hohmann & Barnard, Inc.

The Environmental Information included under Section H hereof as well as the Hazardous Material Identification System (HIS) and National Fire Protection Association (NFPA) ratings have been included by Hohmann & Barnard in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Hohmann & Barnard's interpretation of the available data.