

# Material Safety Data Sheet

## Section I-Identity and Company Information

**Identity:** Mineral Wool Bend-A-Board

**Manufacturer:** IMC Insulation Materials Corporation

**Address:** 510 North 15<sup>th</sup> Avenue, Lebanon, PA 17042

**Emergency Telephone Number:** 908-753-0220

**Telephone Number for Information:** 717-272-1108

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## Section II-Ingredient Information

<b>Common Name</b>	<b>Chemical Name</b>	<b>CAS#</b>	<b>wt%</b>
Mineral Wool	Mineral Fiber	Not assigned	95
Cured Binder	Urea-Phenolic Resin	24105-55-6	2-5
Formaldehyde (trace)	Formaldehyde	50-00-0	<0.1
Lubricating Oil	Lubricating Oil	8012-95-1	<2
Proprietary Mixture	N/A	Not assigned	<2
Water	Water	7732-18-5	<0.1
Fibrous Glass	Fibrous Glass	65997-17-3	<0.1
Antimony Tri-Oxide	Antimony Tri-Oxide	1309-64-4	<0.1
Decabromodiphenyloxide	Decabromodiphenyloxide	1163-19-5	<0.1
Aluminum Alloy	Aluminum	AL #7429-90-5	<0.1

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## Section III-Health Hazard Data

**Primary Route(s) of Entry:** Inhalation, skin, eye

### **Potential Health Effects:**

**Acute:** Fiberglass wool is a mechanical irritant and may cause irritation or soreness of the eyes, skin and mucous membranes of respiratory tract.

**Chronic:** Mineral wool and fiberglass wool are possible cancer hazard. IARC has classified mineral wool and fiberglass wool as possible cancer-causing agents to humans. This

was based on experiments in which fiberglass wool was injected or implanted into animals, but has not produced significant cancer by inhalation.

**Medical Conditions Aggravated by Exposure:** Chronic respiration or skin condition may temporarily worsen from exposure to these products.

**Carcinogenicity:**

<b>Ingredient</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Formaldehyde	Yes	Yes	Yes	Yes
Fiberglass Wool	A3	Group 3	No	No
Mineral Wool	A3	Group 3	No	No

Notes: A3: With unknown to relevance to humans

Group 3: Not Classifiable as a human carcinogen

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**Section IV- Emergency and First Aid Procedures**

**Inhalation:** Move to fresh air. Seek medical attention if irritation persists.

**Eye Contact:** Wash eyes with running water for at least 15 minutes. Seek medical attention if irritation persists.

**Skin Contact:** Wash with mild soap and running water. Use a wash cloth to remove fibers. To avoid further irritation, do not rub or scratch irritated areas. Rubbing or scratching may force fiber into skin. Seek medical attention if irritation persists.

**Ingestion:** Ingestion of this material is unlikely. If this does occur, observe individual for several days to ensure intestinal blockage does not occur.

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**Section V- Fire and Explosion Hazard Data**

**Flash Point, °C, Test method:** 1220°C-Alum

**Auto-ignition Temperature:** NA

**Flammable Limits, vol %:** None

**Extinguishing Media:** Class D extinguishing agent or dry sand; do not use halogenated extinguishing media. (based on Aluminum)

**Fire Fighting Instructions:** Use self-contained breathing apparatus in a sustained fire.

**Unusual Fire and Explosion Hazards:** Although mineral wool will not burn, the ASJ facing and glue will, if exposed to temperatures over 300°F. The molten Aluminum can react violently with water. Hydrogen chloride, Halide, Ammonia Compounds, Nitrogen Oxides, and Sulphur Oxides could form under fire conditions.

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## **Section VI. Exposure Limits and Personal Protection**

<b>Ingredient</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
Mineral Wool	15 mg/m <sup>3</sup> TWA (total particulate) 5 mg/m <sup>3</sup> TWA (respirable particulate)	10 mg/m <sup>3</sup> TWA (inhalable particulate) 3 mg/m <sup>3</sup> TWA (respirable particulate)
Fibrous Glass	15 mg/m <sup>3</sup> TWA (total particulate) 5 mg/m <sup>3</sup> TWA (respirable particulate)	1 fiber/cc TWA for respirable fibers longer than 5 um with a diameter less than 3 um
Cured Binder	None	None
Formaldehyde	0.75 ppm TWA, 2 ppm STEL	0.3 ppm Ceiling
Antimony Tri-Oxide	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup> (as Antimony)
Decabromodiphenyloxide	5.0 mg/m <sup>3</sup>	5.0 mg/m <sup>3</sup>
Aluminum Alloy	15.0 mg/m <sup>3</sup>	15.0 mg/m <sup>3</sup>

### **Personal Protection:**

**Respiratory Protection:** 3M Model 8710, 3M 9900 (in high humidity environments) or equivalent for exposures over 5 mg/m<sup>3</sup> respirable dust.

**Skin Protection:** Long-sleeved, loose fitting clothing and gloves

**Eye Protection:** Goggles or face shield

**Engineering Control:** General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below regulatory limits. Dust collection systems should be used in operations involving cutting or machining and may be required in operations using power tools.

## **Section VII. Physical and Chemical Properties**

**Boiling Point, °C:** N/A

**Specific Gravity (H<sub>2</sub>O=1):** Unknown

**Vapor Pressure, mmHg at 20°C:** N/A

**Volatile volume %:** 0

**Vapor Density (Air=1):** N/A

**Evaporation Rate (n-Bu.Ac.=1):** N/A

**Solubility in Water:** Insoluble

**pH:** N/A

**VOC, g/liter (LB/Gallon):** 0

**Viscosity:** N/A

**Appearance & Odor:** Tan or black insulation- may possess faint resin odor. Products have a foil or white paper facing.

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## **Section VIII. Reactivity Data**

**Stability:**  Unstable  Stable

**Incompatibility (Materials to avoid):** Hydrofluoric acid

**Hazardous Polymerization:**  Will occur  Will not occur

**Photo-Chemical Reactivity:**  Yes  No

**Hazardous Decomposition products:** None, except in fire. See Section V of MSDS for combustion products statement.

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## **Section IX. Environmental Protection Information**

### **Spill Response:**

Land Spill: Scoop up or vacuum material and put into suitable container for disposal as a non-hazardous waste.

Water Spill: This material will sink and disperse along the bottom of waterways and ponds. It cannot easily be removed after it is waterborne; however, the material is non-hazardous in water.

Air Release: This material will settle out of the air. It can then be scooped up or vacuumed for disposal as a non-hazardous waste.

**RCRA Hazard Class:** Non-Hazardous

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## **Section X. Special Precautions**

**Handling & Storage:** No special storage or handling procedures are required for this material.

**Precautions for Repairs & Maintenance of Contaminated Equipment:** Avoid inhalation.

**Work/Hygienic Practices:** Wash work clothing separately. Wash exposed skin area immediately with warm, soapy water.

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**Section XI. Transport Information**

**DOT Proper Shipping Name:** Not regulated    **ID Number:** None

**DOT Classification:** Non-hazardous    **Label Required:** None

**Packaging Requirements:** None    **RQ:** None

**Max. Net Quantity in One Package:** None

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**Section XII. Regulatory and Hazard Rating Information**

**TSCA**

All components are listed on TSCA Inventory:     Yes     No

**SARA Title III**

Hazard Categories:

Acute Health: Yes

Chronic Health: Yes

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Section 302 Extremely Hazardous Substance List, 40 CFR 355:     Yes     No

Section 313 Toxic Chemical List, 40 CFR 372.65:     Yes     No

**California Proposition 65:** Formaldehyde is listed as a chemical known to the state of California to cause cancer.

**HMIS and NFPA Rating:**

**Category      HMIS    NFPA**

Health            1        1  
Flammability    0        2 (facing, packaging)  
Reactivity       0        0

NFPA Unusual Hazard: None

HMIS Personal Protection: To be supplied by user depending upon use.

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**Date Prepared: 02/11/2014**

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