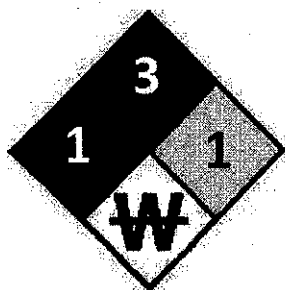


2-C**PRODUCT IDENTIFIER****SIGNAL WORD:****DANGER
PELIGRO****ALUMINUM
& ZINC
BRAZING RODS****GHS****Hazard Statement**

Flammable solid. In contact with water releases flammable gases.

Precautionary Statement: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use explosion-proof electrical/ventilating/lighting equipment. Do not allow contact with water. Wash hands after use before eating or smoking.

INGESTION: May cause nausea, vomiting, and GI irritation.

SKIN: Avoid contact with skin. May cause irritation.

RESPIRATORY: May be harmful if inhaled.

EYES: Avoid contact with eyes. Causes eye irritation.

GHS Classification and Pictograms**HEALTH
HAZARDS****PHYSICAL
HAZARDS****ENVIRONMENTAL
HAZARDS**

NONE

**TARGET ORGAN
EFFECTS****FIRE FIGHTING
EQUIPMENT****PPE
EPP****CLASS D****FIRST
AID**

EYES: Wash eyes with water for 15min. Medical if necessary.
SKIN: Wash affected area for five minutes. Medical if necessary.
INGESTION: Induce vomiting. If unconscious seek medical 911.
INHALATION: Give artificial respiration if not breathing. If breathing is difficult oxygen should be administered.

Aluminum and Zinc

Safety Data Sheet

1. Product and Company Identification

Suppliers and Manufacturers

Lucas Milhaupt, Inc.
5656 South Pennsylvania Avenue
Cudahy, WI 53110 USA
Telephone: 414-769-6000
www.lucasmilhaupt.com

Emergency Phone Number

CHEMTREC Within the USA and Canada: 1-800-424-9300
CHEMTREC Outside USA and Canada: +1 703-741-5970

SDS Number: 220

Product Codes: 62-801, 62-802, 62-805, 62-815, 62-833, LTB8020, LTB78020

Product Use(s): Alloy for brazing and other metallurgical processes

2. Hazards Identification

Note: the following GHS classifications are applicable only to powdered forms of the product. No hazard classifications are applicable to the product in other forms (e.g., wire, strip, grain).

Classification(s)

Flammable Solid: Hazard Category 1
Substances Which, in Contact with Water, Emit Flammable Gases:
Hazard Category 2



Label Symbol(s): Flame

Label Signal Word(s): Danger

Label Hazard Statement(s)

Flammable solid.
In contact with water releases flammable gases.

Label Precautionary Statement(s)

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Use explosion-proof electrical/ventilating/lighting equipment.
Do not allow contact with water.
Wear protective gloves and eye/face protection.
IN CASE OF FIRE: Use dry sand, dry clay, dry limestone, or Class D fire extinguishers. Do not use carbon dioxide, halogenated agents, or water.
Brush off loose particles from skin and immerse in cool water/wrap.
Store in a dry, well-ventilated place in a closed container.
Store away from other materials.
Dispose of contents/container in accordance with applicable regulations.
The product consists of 100% of ingredients of unknown acute toxicity.

Methods and Materials

If product is spilled, clean up spillage with a brush or sponge, using non-sparking equipment. Only vacuum cleaners approved for use with combustible metal dusts should be used. If cleaning by vacuum, piping, hoses, and attachments should be electrically conductive and grounded.

Personal Precautions

Avoid contact with skin, eyes, and mucous membranes.

Environmental Precautions

Prevent spills from entering sewers or contaminating soil.

7. Handling and Storage

Handling Precautions

Avoid handling product where there is the potential for static discharge.

Work and Hygiene Practices

To prevent ingestion following use of the product, wash hands and face before eating, drinking, applying cosmetics, or using tobacco. Remove contaminated clothing or protective equipment before entering eating/drinking areas.

Storage Precautions

Do not store in proximity to incompatible materials (see Section #10).

8. Exposure Controls and Personal Protection

Ingredients - Exposure Limits

Aluminum

ACGIH TLV: 1 mg/m³ TWA (respirable fraction)

OSHA PELs: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

Zinc

ACGIH TLVs (as ZnO): 2 mg/m³ TWA; 10 mg/m³ STEL (respirable fractions)

OSHA PEL: 5 mg/m³ TWA (as respirable fraction of ZnO dust or fume)

Ingredients - Biological Limits

Aluminum

No ACGIH BEI(s) or other biological limit(s)

Zinc

No ACGIH BEI(s) or other biological limit(s)

Engineering Controls

Use dilution or local exhaust ventilation adequate to maintain concentrations of all components and their byproducts to within their applicable standards.

Eye/Face Protection

Wear eye protection adequate to prevent eye contact with finely-divided product and eye injury if products are used with a flame. Plastic-frame spectacles with side shields and filter lenses (shade #3/#4) are recommended.

Skin Protection

11. Toxicological Information

This product has not been subject to toxicological testing by the supplier/
manufacturer.

Ingredients - Toxicological Data

Aluminum

LD50: No data available

LC50: No data available

Zinc

LD50: No data available

LC50: No data available

Primary Routes(s) of Entry

Ingestion; inhalation.

Eye Hazards

Eye contact with this product may cause irritation.

Skin Hazards

Skin contact with this product may cause irritation.

Ingestion Hazards

Ingestion of this product may cause nausea, vomiting, and gastrointestinal
irritation.

Inhalation Hazards

Inhalation of toxicologically-significant quantities of the components is
unlikely when the product is used in accordance with instructions and
specified protective measures (see Section #8).

Symptoms Related to Overexposure

Pre-existing pulmonary diseases (e.g., bronchitis, asthma) may be aggravated
by inhalation overexposure, particularly as fume.

Delayed Effects from Long Term Overexposure

Chronic overexposure by inhalation and/or ingestion may aggravate pre-
existing diseases of the respiratory system.

Carcinogenicity

The product contains no chemicals classified as potential or demonstrated
carcinogens by IARC, NTP, or OSHA.

Germ Cell Mutagenicity

The product contains no chemicals determined to be germ cell mutagens.

Reproductive Effects

The product contains no chemicals determined to be damaging to fertility of
the unborn child.

Acute Toxicity Estimates

LD50 (oral): no data available

LD50 (dermal): no data available

These products contain these components at concentrations >1% (0.1% for carcinogens subject to Section 313 of the Emergency Preparedness and Community Right-to-Know Act (EPCRA) of 1986 and of 40CFR, Part 372:

1. Aluminum (CASRN 7429-90-5)

Canadian Regulatory Information

All components of these products are listed on either the Domestic Substances List (DSL) or the Nondomestic Substances List (NDSL).

WHMIS Class(es) and Division(s): B4, B6, D2B

Components on Ingredients Disclosure List:

1. Aluminum, elemental (CASRN 7429-90-5)

These products have been classified according to the hazard criteria of the CPR and this SDS contains all of the information required by the CPR.

16. Other Information

HMIS Ratings

Health - 1* (slight chronic hazard)

Flammability - 3 (serious hazard)

Physical Hazard - 1 (slight hazard)

PPE - see Note

Note: Lucas-Milhaupt, Inc. recommends use of protective eyewear and gloves (Personal Protection Index "B") as standard PPE. HMIS recommends that its ratings be used only in conjunction with a fully implemented HMIS program, and that specific PPE codes be created by the user, who is familiar with the actual conditions under which the product is used. We cannot anticipate every condition of the product's use, and it is the user's responsibility to evaluate the hazards pertinent to its specific operations, and to determine the specific PPE required.

NFPA Ratings

Health - 1 Flammability - 3 Reactivity - 1

Preparation Information

Date of Preparation: 27 June 2014

Date of Prior SDS: 25 January 2010

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

Lucas-Milhaupt, Inc.