

MATERIAL SAFETY DATA SHEET

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| COMPANY: Continental Aluminum Company P.O.Box 808 28201 Milford Rd. New Hudson, MI 48165 | | D.C.N.: 002-004 <hr/> ISSUE: A Rev 3, 9/1/06 <hr/> PHONE NUMBER: 248-437-1001 |
| TRADE NAME: Aluminum Alloy Bars, Pellets, Shot, Cones | COMMON NAME: Mixture | DOT I.D. No.: None Needed |

INGREDIENTS

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| MATERIAL OR COMPONENT: | | | |
| This is not a specification sheet. Different alloys may contain a % range of one or more of the alloying elements below. | | | |
| | % (range) | TLV | (ACGIH) |
| Aluminum | 95-99 | 10 mg/m ³ 5mg/m ³ | (dust) (fumes) |
| Copper | 0-5 | 1 mg/m ³ 0.2 mg/m ³ | (dust) (fumes) |
| Manganese | 0-5 | 5 mg/m ³ 1 mg/m ³ | (dust) (fumes) |
| Silicon | 0-5 | 10 mg/m ³ | (dust) |
| Iron | 0-5 | 5 mg/m ³ | (fume as Fe ₂ O ₃) |
| Magnesium | 0-5 | 10 mg/m ³ | (fumes) |
| Chromium | 0-0.3 | 0.5 mg/m ³ | as metal |

PHYSICAL DATA

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| MATERIAL IS (AT NORMAL CONDITIONS): <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other | | APPEARANCE: Silvery Metal | | ODOR: None | |
| ACIDITY/ALKALINITY: PH = NA | MELTING POINT: 1000-1200 °F BOILING POINT: NA °F | SPECIFIC GRAVITY: 2.69-2.73 H ₂ O = 1 SOLUBILITY IN WATER: NIL | VAPOR PRESSURE: (mm HG at 20°C) NA | | |

HEALTH / SAFETY INFORMATION PLUS EMERGENCY PROCEDURES

Aluminum should be treated as a nuisance dust where the operation performed on the aluminum is cutting, grinding, etc. These alloys have a low or no risk hazard if contacted by inalation, ingestion or absorption.

Chromium is contained in some alloys over .1%. Chromium and its compounds are listed as a carcinogen, However, due to its low concentration and the chemical form in which it is present in these alloys, it does not present a health hazard.

If welding or melting aluminum, reference should be made to appropriate safeguards.

FIRE AND EXPLOSION

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| FLASH POINT: NA °F | AUTO IGNITION TEMPERATURE: NA °F | FLAMMABLE LIMITS IN AIR: LOWER NA % UPPER NA % |
| FIRE AND EXPLOSION HAZARDS: These aluminum products are not fire or explosion hazards under normal operation conditions. Small chips, small turnings and dust may ignite readily. Molten aluminum may explode on contact with water. Special precautions should be taken when melting aluminum. Refer to the Aluminum Association's "Guidelines for Handling Molten Aluminum." (See additional information.) Moisture entrapment in casting voids necessitate proper drying and storage procedures be followed. | | |
| EXTINGUISHING MEDIA: USE CLASS D EXTINGUISHER OR SAND | | |
| EXTINGUISHING MEDIA NOT TO BE USED: DO NOT USE WATER OR HALOGEN ON DUST FIRES | | |

REACTIVITY

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| STABILITY: Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/> Stable under normal operating conditions and storage. For chips, and fines the following conditions should be avoided because of possible heat and/or hydrogen reactions: combination of chips or fines with water, heat, acids, and strong oxidizers. Molten aluminum may explode if contacted with water. |
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PERSONAL PROTECTIVE EQUIPMENT

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| RESPIRATORY PROTECTION: None for handling solid state. If dust present, use NIOSH approved respirator. |
| EYES, FACE, HANDS, SKIN: Wear appropriate protection depending upon type of work being performed on aluminum (i.e. gloves, safety glasses, face shields, etc.). Special clothing when handling molten aluminum or use in a foundry environment. |

ENVIRONMENTAL

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| SOIL LEAK AND DISPOSAL PROCEDURES: Collect scrap for remelting. |
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ADDITIONAL INFORMATION

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| Comprehensive information is contained in the Aluminum Association's "Guidelines for Handling Molten Aluminum." Write the Aluminum Association, 818 Connecticut Ave., NW, Washington, DC 20006 for a copy. |
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