



# MATERIAL SAFETY DATA SHEET

**PRODUCT IDENTITY:** Aluminum Pipe Nipples **MSDS #:** 008

## SECTION I

<b>MANUFACTURE'S NAME:</b> Merit Brass Company  <b>ADDRESS:</b> One Merit Drive - P.O. Box 43127 Cleveland, Ohio 44143  <b>CHEMICAL NAME AND SYNONYMS:</b> Aluminum Alloys; 6061, 6063, and 3003-H18	<b>EMERGENCY TELEPHONE NUMBER:</b> 1-216-261-9800 or 1-800-726-9800  <b>TELEPHONE NUMBER FOR INFORMATION:</b> 1-216-261-9800 or 1-800-726-9800  <b>COMPANY CONTACT:</b> Thomas J. Golenski, Plant Superintendent
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## SECTION II - HAZARDOUS INGREDIENTS

ELEMENT	CAS NO.	% RANGE	OSHA PEL (mg/M <sup>3</sup> )	ACGIH TLV (mg/M <sup>3</sup> )
Aluminum	7429-90-5	92 - 99	5 respirable dust, 15 total dust	5 welding fume, 10 total dust
Silicon	7440-21-3	0 - 1.8	5 respirable dust, 10 total dust	10
Iron	7439-89-6	0 - 1	10 dust	5 dust
Manganese	7439-96-5	0 - 1.1	1	5
Magnesium	7439-95-4	0 - 1.5	5 respirable dust, 10 total dust	1 fume, 5 dust
Zinc	7440-66-6	0 - 8	5 respirable dust, 10 total dust	5 fume, 10 dust
Copper	7440-50-8	0 - 6	0.1 fume, 1 dust	0.2 fume, 1 dust
Chromium	7440-47-3	0 - 0.35	1	0.5 dust/fume

## SECTION III - PHYSICAL DATA

MELTING POINT: 890 to 1210° F	SPECIFIC GRAVITY: 2.7 g/cc
BOILING POINT: Not Applicable	VAPOR PRESSURE: Not Applicable

Aluminum is a dull silver-gray colored metallic solid, it has no odor, and is not soluble in water.

## SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: Not Applicable	EXTINGUISHING MEDIA: Dry sand or Class D dry chemical.
AUTO-IGNITION TEMPERATURE: Not Applicable	NATIONAL FIRE PROTECTION ASSOCIATION DATA: Health - 0      Flammability - 1
FLAMMABLE LIMITS:      LEL N/A      UEL N/A	Reactivity - 1      Special - None

**SPECIAL FIRE FIGHTING PROCEDURES:**  
None when solid. In powder form aluminum is an explosive when mixed with air.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
Wet aluminum dust may form hydrogen gas. Do not use water on molten metal.  
Do not use halogenated extinguishing agents.

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## SECTION V - HEALTH HAZARD DATA

Aluminum Pipe Nipples

THRESHOLD LIMIT VALUE: See SECTION II - HAZARDOUS INGREDIENTS

EFFECTS OF OVEREXPOSURE: No adverse health effects when handling intact parts; wash hands before eating to prevent ingestion of minute amounts of metal. High exposure to aluminum dust or fume may cause irritation of eyes and respiratory system. Breathing aluminum dust or welding fumes may cause shortness of breath, coughing, and fibrosis of the lungs. Metals alloyed with aluminum vary in their toxicity and due precautions should be taken.

EMERGENCY AND FIRST AID PROCEDURES: In all cases seek medical assistance.

INHALATION - Remove person with symptoms to fresh air, thoroughly shower, and change cloths.

INGESTION - Seek medical assistance.

EYE - Flush with clean water for thirty minutes.

SKIN - Wash thoroughly with soap and water.

## SECTION VI - REACTIVITY DATA

STABILITY: Aluminum metal is stable at room temperture.

INCOMPATABILITY: (Materials to avoid) Strong mineral acids, alkali bases, and halogenated compounds. Per NFPA #491M.

HAZARDOUS DECOMPOSITION PRODUCTS: Flammable or toxic gases may evolve when aluminum is exposed to acids or bases.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Do not use aluminum pipe and fittings to transport corrosive liquids.

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Aluminum parts spills should constitute only a trip and fall hazard.

WASTE DISPOSAL METHOD: Aluminum metal is valuable and may be recycled by foundries and secondary metal smelters. Avoid melting aluminum chips covered with metal cutting oil since this will cause fugative emissions of dense smoke into the air.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: (Specify Type) Use a NIOSH approved toxic dustrespirator when melting, welding, or grinding aluminum metal.

VENTILATION: Local exhaust ventilation is recommended when melting, welding, or grinding aluminum metal.

EYE PROTECTION: Wear appropriate eye protection when melting, welding, soldering, cutting, or grinding aluminum metal.

PROTECTIVE GLOVES: Use cotton work glove to prevent transfer of metal to skin. Use cut resistant gloves when handling metal chips.

OTHER PROTECTIVE EQUIPMENT: Wear clothing appropriate to the fabrication operation attempted with this product.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Protect aluminum parts from moisture to avoid discoloration and corrosion.

OTHER PRECAUTIONS: Never place wet aluminum parts into a melting furnace - explosion hazard.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warrantee or guarentee is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy themself as to the suitability or completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this product either singly or in combination with other substances. This MSDS is equivalent to OSHA Form 20.

MSDS prepared by: S.R. Pressman, Industrial Hygienist (5/90)

Aniline Environmental