

## MATERIAL SAFETY DATA SHEET

PRODUCT  
RIGID ALUMINUM CONDUIT

FOR TRANSPORTATION EMERGENCIES CONTACT:  
CANUTEC

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : RIGID ALUMINUM CONDUIT

APPLICATION/RESTRICTIONS :

COMPANY IDENTIFICATION : COLUMBIA-MBF  
6560 Northwest Drive  
Mississauga, ON  
L4V 1P2 Tel: 905-362-0180

EMERGENCY TELEPHONE NUMBER(S) : (905) 362-0180 OR 1-866-632-0180 Mon. - Fri. 8:00am – 4:30pm

### 2. HAZARDS IDENTIFICATION

#### \*\*EMERGENCY OVERVIEW\*\*

#### HUMAN HEALTH HAZARDS –

Normal expected use of the semi-finished products provides no established health hazards.

Inhalation of finely divided aluminum dust may present a potentially significant health hazard in the form of pulmonary fibrosis.

Ozone may be emitted as a by-product during plasma arc cutting or welding of aluminum. Exposure to ozone can produce eye, nose and throat irritation.

Overexposure to welding fumes containing aluminum and component elements may cause skin, nose, mouth, and eye irritation and lung changes in workers possibly leading to pulmonary disease.

Overexposure to manganese fumes from welding 3000 series alloys can cause chronic manganese poisoning. The early symptoms include headaches, apathy, sleepiness and weakness or cramps in the legs. The chronic Over exposure attacks the central nervous system and leads to permanent disability. Symptoms may be disturbance in gait and speech, balance difficulties and paralysis.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Material:** Aluminum Alloys 6000 Series  
(not a specification sheet)

Aluminum CAS# 7429-90-5  
97.5-99%

ACGIH  
Dust 10Mg/M TWA  
20Mg/M STEL  
Welding  
Fumes 5Mg/M TWA

Manganese CAS# 7439-96-5  
Alloy 3003 & 3004 (1.0-1.6%)

Dust 5Mg/M TWA  
Fumes 1Mg/M TWA  
3Mg/M STEL

All other components of the aluminum alloys are below 1%.  
Chromium, listed as a potential cancer causing agent is below 0.1%

## 4. FIRST AID MEASURES

## 5. FIRE FIGHTING MEASURES

**Flash Point:** None in normal use

**Auto Ignition Temperature:** (solid aluminum in oxygen) > 1832 degrees F

**Fire and Explosion Hazard:** None in normal use

Hazard is moderate when the material is in the form of fine dust and exposed to heat or flames, chemical Re-action or contact with powerful oxidizers.

**Fire Fighting Procedure:** Use dry powder or sand. Do not use water or moist sand. Do not use halogenated extinguishing agents.

Unusual Fire and Explosion Hazard: Water and oxidizers react explosively in contact with molten aluminum.

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### 6. ACCIDENTAL RELEASE MEASURES

If material is Released or Spilled: No special procedure.

### 7. HANDLING AND STORAGE

**Precautions:** If aluminum is to be remelted, be certain that no water is present in cavities within the scrap.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** None for semi-finished products. If a fine dust is generated during finishing use a NIOSH/MSHA approved respirator.

**Ventilation:** Required amount for dust and fume producing process.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 3500-4500 degrees F

**% Volatile by volume:** 0.00%

**Solubility in water:** Insoluble

**Melting Point:** 1100 degrees F

**Specific Gravity:** 2.7

**Vapor Pressure:** 1mmHg at 2343 F

**Appearance and odor:** Silvery ductile metal with no odor

### 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Situations to Avoid:** Aluminum fines or dust will react with acids, alkalis and strong oxidizers. Hydrogen can be evolved. Molten aluminum may explode on contact with water and strong oxidizers.

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### 11. TOXICOLOGICAL INFORMATION

### 12. ECOLOGICAL INFORMATION

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose in accordance with all applicable Federal, State and Local waste management regulations.

### 14. TRANSPORT INFORMATION

### 15. REGULATORY INFORMATION

### 16. OTHER INFORMATION

**This information is taken from sources or based upon data believed to be reliable: However ColumbiaMBF makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.**

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Prepared By : Ken Blanchette  
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