



## SAFETY DATA SHEET

### ALUMINUM EXTRUSIONS

#### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** All **M-D Pro** Aluminum Extrusions. Although extrusions vary in terms of physical properties or other characteristics, safety and handling precautions are similar for all.

**Product Use:** Ceramic Tile Trim and Carpet Trim

**Manufacturer:** M-D Pro  
5720 Ambler Drive  
Mississauga, ON  
L4W 2B1  
1-800-565-6653

#### SECTION 2 – HAZARDS IDENTIFICATION

As defined in OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products listed above are considered articles and do not require a SDS. In addition, articles are not included in the scope of the Global Harmonization System (GHS). As such, the GHS labeling elements are not included in this SDS. All components listed for these products are bound within the product. When handled as intended and under normal condition of use, there is no evidence that any of the ingredients are released in amounts that pose a health risk. Although these products are not subjects to the OSHA Standard or GHS labeling elements M-D Pro would like to disclose as much health and safety information as possible to ensure that products are handled and used properly.

		<b>LABEL ELEMENTS</b>		<b>PRECAUTIONARY STATEMENT</b>
<b>Physical Hazards</b>	Not classified	<b>Hazard Symbol</b>	None	<b>Prevention</b> Observe good industrial practice
<b>Health Hazards</b>	Not classified	<b>Signal Word</b>	None	<b>Response</b> Wash hands after handling
<b>OSHA defined Hazards</b>	Not classified	<b>Hazard Statement</b>	None	<b>Storage</b> Store away from incompatible material
<b>Hazards not otherwise Classified (HNOC)</b>	Not classified			<b>Disposal</b> Dispose waste and residue according to the local authority requirements

#### SECTION 3 – HAZARDOUS INGREDIENTS: COMPOSITION INFORMATION

These products are not expected to produce any hazards during normal use. Direct contact may irritate the skin or eyes. Edges may be sharp. Handle with caution.

Complete composition provided below and include components classified as non-hazardous

INGREDIENT	% WEIGHT	TWA-ACGH
Aluminum CAS 7429-90-5	≥ 90 %	1mg/m <sup>3</sup>
Magnesium CAS 7439-95-4	≤ 4.1%	N/A
Zinc CAS 7440-66-6	≤ 4%	N/A
Silicon CAS 7440-21-3	≤ 1.9%	N/A
Manganese CAS 7439-96-5	≤ 1.5%	0.1mg/m <sup>3</sup>



Copper CAS 7440-50-8	≤ 1.4%	1mg/m <sup>3</sup>
Iron CAS 7439-89-6	≤ 1.2%	N/A
Chromium CAS 7440-47-3	≤ 0.5%	0.5mg/m <sup>3</sup>
Lead (as impurity) CAS 7439-92-1	≤ 0.4%	0.05mg/m <sup>3</sup>
Nickel (as impurity) CAS 7440-02-0	≤ 0.2%	1.5mg/m <sup>3</sup>

## SECTION 4 – FIRST AID MEASURES

**General information:** Dust and fumes from processing only

**Inhalation:** Inapplicable to the solid product due to the physical size and dimensions of the products. Dust from processing: Remove to fresh air, if breathing is difficult provide oxygen. Consult a physician.

**Eye Contact:** Inapplicable to the solid product except for a mechanical injury. Dust/small particles from sawing or other mechanical processes may affect eyes if not protected. Rinse eyes with plenty of water or saline for at least 15 minutes. Consult a physician.

**Skin Contact:** Inapplicable to the solid product except for a mechanical injury. Dust from processing wash with soap and water. Get medical attention if irritation develops.

**Ingestion:** Not likely, due to the solid form of the products.

**Most important:** Dust from processing: irritation to eyes, respiratory system and skin. May produce an allergic reaction. Heating above the melting point releases metallic oxides which may cause metal symptoms/effects, acute and delayed fume fever by inhalation. The symptoms are shivering, fever, malaise and muscular pain.

**Indication of immediate medical attention and special treatment needed:** Treat symptomatically

## SECTION 5 - FIRE-FIGHTING MEASURES

**Flash Point:** N/A

**Flash Point Method:** N/A

**Auto Ignition Temperature:** N/A

**LEL:** No data

**UEL:** No data

**Extinguishing Media:** Use Class D extinguishing agents on dust, fines, particles or molten metal. Use coarse water spray on chips and turning. Apply extinguishing media carefully to avoid creating airborne dust, fines or particulate.

**Unsuitable extinguishing:** DO NOT USE halogenated agents on small chips, dust, fines and particulate.

**Media:** DO NOT USE water in fighting fires around molten material

**Fire or Explosion Hazards:** May be a potential hazard under following conditions:

-Dust, fines or particulate clouds may be explosive, Even a minor dust cloud can explode violently. Dust accumulation on the floor, ledges and beams can present a risk of ignition, flame propagation and secondary explosions.

-Chips, dust, fines or particulate in contact with water can generate flammable/explosive hydrogen gas. These gases could present an explosion hazard in confined or poorly ventilated spaces.

-Dust, fines or particulate in contact with certain metal oxides (i.e. copper oxide). A thermite reaction with considerable heat generation can be initiated by a weak ignition source.

-Molten metal in contact with water/moisture or certain metal oxides (i. e. copper oxide). Moisture entrapped by molten metal can be explosive. Contact of molten aluminum with certain metal oxides can initiate a thermal reaction. Thermite reactions can occur with oxides of lead, copper, iron, bismuth.

**Protective Measure for Firefighters:** Wear a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode



**Special Protective Actions for Firefighters:** Use gentle surface application of Class D extinguishing agent or dry inert granular material (i. e. sand) to cover and ring the burning material. If impossible to extinguish, protect surroundings and allow fire to burn itself out.

**General Fire Hazards:** These products do not present fire or explosive hazards as shipped. Small chips, fine turning, dust, fines or particulate from processing may be ignitable.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency procedure:** Avoid generating dust. Avoid contact with sharp edges or heated metal. Molten, heated and cold aluminum look alike; do not touch unless you know it is cold.

**Methods and materials for Containment and cleaning up:** Collect products and bundle or secure properly. Broken parts may be sharp, gloves and eyes protections are recommended.

**Environmental Precautions:** None

## SECTION 7 – HANDLING AND STORAGE

**Handling Precautions:** Wear appropriate protective equipment when handling material. Avoid generating dust, keep material dry.

**Condition for Safe Storage, including any incompatibilities:** Store in appropriate dry storage area

**Requirements for Processes which Generate Dusts or Fines** If processing generates dust, fines or particulate, obtain and follow the safety procedures and equipment guides contained in Aluminum Association Bulletin F-1 and National Fire Protection Association (NFPA) standard listed in Section 16. Use non-sparking handling equipment, tools and natural bristle brush. Cover and re-seal partially empty containers. Provide grounding and bonding where necessary to prevent static charges during aluminum handling and transfer operations .  
Local ventilation and vacuum system must be designed to handle combustible/ explosive dust, fines and particulate. Dust collection system must be dedicated to aluminum dust only. Do not co-mingle aluminum dust, fines or particulate with dust, fines and particulate of steel, iron, iron or other metal oxides.  
Avoid all ignition sources. Good housekeeping is a must. Do not use compressed Air to remove settled material from floors, beams or equipment.  
Do not allow chips, dust, fines or particulate to contact water, particularly in Enclosed areas. Regularly clean building structures, equipment to avoid accumulation of dust, fines or particulate that could become airborne.

## SECTION 8 – PRECAUTIONS TO CONTROL EXPOSURE/ PERSONAL PROTECTION

**Occupational exposure limits**

**US OSHA**

Components	Type	Value	Form
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Aluminum CAS 7429-90-5	TWA	5mg/m <sup>3</sup> 15mg/m <sup>3</sup>	Respirable fraction Total dust
Chromium CAS 7440-47-3	TWA	1mg/m <sup>3</sup>	
Copper CAS 7440-50-8	TWA	1mg/m <sup>3</sup> 0.1mg/m <sup>3</sup>	Dust and mist Fume
Manganese CAS 7439-96-5	Ceiling	5mg/m <sup>3</sup>	Fume
Nickel (as impurity) CAS 7440-02-0	TWA	1mg/m <sup>3</sup>	
Silicon CAS 7440-21-3	TWA	5mg/m <sup>3</sup> 15mg/m <sup>3</sup>	Respirable fraction Total dust
Lead (as impurity) CAS 7439-92-1	TWA	0.05mg/m <sup>3</sup>	

**Eye protection:** When cutting, wear safety glasses or goggles to prevent particles from being projected into eyes.

**Skin protection:** During handling wear gloves.

Handle in accordance with good industrial hygiene and safety practice.

**Biological limit value:** None

**Engineering Controls:** If dust and fumes are generated through processing use adequate ventilation

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Extruded Solid	<b>Boiling Point</b>	N/A
<b>Odor</b>	Odorless	<b>Melting Point</b>	440-1215 °F (degrees Fahrenheit)
<b>Odor Threshold</b>	N/A	<b>Flash Point</b>	N/A
<b>Acidity Alkalinity</b>	N/A	<b>Auto Ignition</b>	N/A
<b>Specific Gravity (H<sub>2</sub>O=1)</b>	2.5 to 2.9	<b>Solubility in Water</b>	Insoluble
<b>Vapor Pressure</b>	N/A		

## SECTION 10- STABILITY AND REACTIVITY

**Reactivity:** These products are non-reactive under normal condition of use, storage and transport.

**Chemical Stability:** Stable under normal condition.

**Possibility of hazardous reaction:** None under normal condition.

**Incompatible Materials:** Chips, dust, fines and particulate are reactive with:

-Strong oxidizers: reaction with considerable heat generation

-Acid and alkalis: reaction to generate explosive hydrogen gas.

-Halogenated compounds

-Iron oxide and other metal oxides (i.e. copper, lead). A thermite reaction with considerable heat can occur.

-Iron powder and water. Reaction may result in explosive hydrogen gas.



**Conditions to Avoid:** Avoid processes generating dust, fines and particulate. Avoid contact with incompatible material.

**Hazardous Decomposition Products:** No hazardous decomposition products are known.

## SECTION 11 – TOXICOLOGICAL INFORMATION

Aluminum dust, fines and fumes: Low health risk by inhalation.  
Generally considered inert (milling, cutting, grinding)

### Information on likely root of exposure

<b>Ingestion</b>	Not relevant due to form of the product	<b>Skin Contact</b>	Dust from mechanical processing
<b>Inhalation</b>	Dust from mechanical processing	<b>Chronic effects</b>	Dust from mechanical processing: chronic overexposure can cause lung or nasal cancer, lung disease.
<b>Acute Toxicity</b>	No data	<b>Reproductive Toxicity</b>	Product as shipped is not hazard. Dust from processing can present reproductive hazard
<b>Sensitization</b>	Dust from mechanical processing	<b>Teratogenicity</b>	No data
<b>Mutagenicity</b>	No data	<b>Specific Target Organs-Single Exposure</b>	No data
<b>Developmental Fertility</b>	No data	<b>Specific Target Organs-Repeated Exposure</b>	Dust/fumes from processing causes damage by inhalation
<b>Carcinogenicity</b>	Product as shipped is not hazard. Dust from processing can present cancer hazard	<b>Aspiration Hazard</b>	No data

## SECTION 12 – ECOLOGICAL INFORMATION

**Eco toxicity:** No Information available.

**Persistence and Degradability:** These products contain inorganic compounds which are not biodegradable.

**Bioaccumulation:** These products are not bio accumulating.

**Mobility:** Not mobile.

**Other adverse effects:** No Information available

## SECTION 13 – DISPOSAL CONSIDERATION

### Waste Treatment methods

**Disposal of Waste:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging:** Dispose on accordance with federal, state and local regulations



#### **SECTION 14 – TRANSPORT INFORMATION**

**Proper shipping name:** Not regulated

**Hazard Class:** Not regulated

**Identification Number:** Not regulated

**Shipping Label:** Not regulated

**Packaging Group:** Not regulated

#### **SECTION 15 – REGULATORY INFORMATION**

There is no safety, health or environmental regulations specific to these products

#### **SECTION 16 – OTHER INFORMATION**

**Revision date:** 11/02/2016

**Date of Previous (M)SDS:** 8/04/2009

**Changes since previous (M)SDS:** Revise to SDS format

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