



Hummel Croton Inc.
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MSDS



Magnesium Aluminum Alloy

In case of Emergency Call Chemtrec®
(U.S.) (800)-424-9300
(International) (703)-527-3887

Section I. Chemical Product and Company Identification

Supplier:

Hummel Croton Inc.
10 Harmich Road
South Plainfield, NJ 07080
(908)-754-1800

Chemical Name: Magnesium Aluminum Alloy

Synonym: Magnalium

CAS Number: Magnesium 7439-95-4 &
Aluminum 7429-90-5

Chemical Formula: N/A

HMIS Rating

Health	1
Flammability	1
Reactivity	2
Personal Protection	E

Section II. Composition and Information on Ingredients

Material	CAS#	%	OSHA	ACGIH
Magnesium	7439-95-4	35-65%	Not Established	Not Established
Aluminum	7429-90-5	35-65%	Not Established	Not Established

Since no Exposure limits have been established for Magnesium Aluminum by OSHA & ACGIH, we recommend that our product should be treated as a nuisance dust 15 mg/m³.

Section III Hazards Identification:

Accute Health Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Chronic Health Effects: This product has no known chronic effects. Repeated or prolong exposure to this compound is not known to aggravate medical conditions.

Accute Health Effects: This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

Section IV. First Aid Measures

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

Section V. Fire and Explosion Data

Flammability: Non-Flamable

Flash Points: Not Applicable

Auto-Ignition: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Use approved class D extinguishers or smother with dry sand, dry ground limestone or dry clay. Do not use water. Do not use carbon dioxide extinguisher on this material. Smother burning alloy.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Pyrophoric material. Wear fire-fighting glasses when fighting fire. Magnesium Aluminum Alloys produce a very bright white flame when they burn.

Fire/Explosion Hazards: Could catch fire if exposed to dry air where static charges could be present. Reacts with water to liberate flammable and/or explosive gas. Emits toxic fumes under fire conditions.

Section VI. Accidental Release Measures

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water

Section VII. Handling and Storage

Storage Temperatures: Store at ambient temperature

Shelf Life: Unlimited in tightly closed container.

Special Sensitivity: Magnesium alloy powder will react with water to produce hydrogen gas and heat. The application of water to molten or burning magnesium aluminum alloy will act as an accelerant, generate hydrogen gas and may cause an explosion.

Handling/Storage Precautions: If any operation involving this product may result in a suspension of alloy powder or dust, precautions must be taken to avoid such suspensions. Care in handling should be used to avoid dust suspensions. No smoking, open flames, or sparks shall be permitted in areas where magnesium aluminum alloys are present. Automatic sprinklers are not recommended in areas where magnesium alloy powder is handled or used. Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Protective Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

Physical Form: Powder

Color: Silver to Grey

Odor: Odorless

Molecular Weight: N/A

Boiling Point: N/A

Melting/Freezing Point: 50/50 Mg/Al alloy melts about 443°C

Solubility In Water: Insoluble

Specific Gravity: 1.8 for 50/50 Mg/Al Alloy

Section X. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will Not occur

Incompatibilities: Acids, Acid Chlorides, Strong Oxidizing Agents, Reacts Violently With: Halogens, Chlorinated Solvents, Air Sensitive, Moisture Sensitive

Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: Not Established

Decomposition products: Unknown

Section XI. Toxicological Infomation

RTECS Number: Magnesium: OM2100000 Aluminum: BD0330000

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolong exposure to this compound is not known to aggravate medical conditions.

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Section XII. Ecological Information

Ecotoxicity: Not available at this time.

Section XIII. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

Proper Shipping Name: Magnesium Aluminum Alloy Powder

UN Number: 1418

Class: 4.3

P.G.: II

Label Code: 4.3(4.2)

Section XV. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 302 ExtremelyHazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

Section XVI. Other Information

Prepared By: Mark Dugan

Date: January 05, 2009

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