

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As Used on Label and List)

All-State 61-T

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name

All-State Welding Products, Inc.

Emergency Telephone Number

800-638-1647 or 717-637-8911

Address (Number, Street, City, State, and ZIP Code)

5112 Allendale Lane, P.O. Box 600

Telephone Number for Information

800-638-1647 or 301-756-4330

Taneytown, MD 21787

Date Prepared

2-12-88

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Aluminum (CAS# 7429-90-5)	NL**	10.0mg/m ³		
Zinc oxide (dust) (CAS# 1314-13-2)	UNK***	UNK***		
Manganese (CAS# 7439-96-5)	5.0mg/m ³ *	5.0mg/m ³ *		
Magnesium (CAS# 7439-95-4)	UNK***	UNK***		

* Ceiling

** Not listed

*** Not known; nuisance particulate concentration per OSHA 1910.1000, Table Z-3, is 5 mg/m³
respirable dust, and per ACGIH is 10 mg/m³.

Section III — Physical/Chemical Characteristics

Boiling Point	Not established	Specific Gravity (H ₂ O = 1)	approx.	1.82
Vapor Pressure (mm Hg.)	N/A	Melting Point	approx.	830°F/443°C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)		N/A
Solubility in Water	N/A			
Appearance and Odor	Silver solid, no odor			

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	N/A	LEL	N/A	UEL	N/A
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Extinguishing Media Smother burning magnesium by covering with an extinguishing powder approved for
use on magnesium fires such as G1, MET-L-X, etc. Consult National Fire Protection Standards.
Special Fire Fighting Procedures

Wear positive pressure self-contained breathing apparatus.

Unusual Fire and Explosion Hazards When heated in air to a temperature near its melting point, magnesium
alloys ignite and burn with a white flame. Use of water on molten magnesium will produce
hydrogen gas and may cause an explosion.

Section V — Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable	Stable under normal handling conditions
Incompatibility (Materials to Avoid) Acid, water. Reacts with acid to form hydrogen gas. In finely divided form, will react with water or acids to release hydrogen.		
Hazardous Decomposition or Byproducts		
None under normal use or storage.		
Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	XX

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	YES	UNLIKELY	UNLIKELY
Health Hazards (Acute and Chronic) ACUTE: Eye: Mechanical injury only. Skin: Mechanical injury only. Molten metal may burn skin. Ingestion: Unlikely due to physical state. If dusts produced, amounts ingested incidental to industrial handling unlikely to cause injury. Ingestion of larger amounts could cause serious injury, even death. Inhalation: Dust may cause irritation to upper respiratory tract. CHRONIC: Repeated exposures are not anticipated to cause any significant adverse effects.			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Signs and Symptoms of Exposure Inhalation: Dust may cause irritation to upper respiratory tract.

Medical Conditions Generally Aggravated by Exposure Preexisting lung disorders.

Emergency and First Aid Procedures Eyes: For dust, irrigate immediately with water for at least 5 minutes. See physician. Skin: Wash off dust in flowing water or shower. Inhalation: Remove to fresh air if dust inhalation effects occur. Consult a physician. Ingestion: Induce vomiting if large amounts of dust are ingested. Consult medical personnel.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
Clean off and use.

Waste Disposal Method
Dispose of in accordance with local, state, and federal regulations.

Precautions to Be Taken in Handling and Storing Practice reasonable care in handling magnesium and magnesium alloy product forms to avoid product damage and/or personal injury. Store product in dry location. Wet, moist or high humidity storage conditions will lead to corrosion of the product. Store away from other combustibles.

Other Precautions
See National Fire Protection Association Bulletin NFPA 48, "Storage, Handling and Processing of Magnesium" for detailed storage information.

Section VIII — Control Measures

Respiratory Protection (Specify Type)
None should be needed. Good general ventilation should be sufficient for most conditions.

Ventilation	Local Exhaust May be necessary for some operations.	Special
	Mechanical (General)	Other
Protective Gloves	Welding gloves	Eye Protection Safety glasses. For exposure to particles, use chemical goggles.
Other Protective Clothing or Equipment	None	
Work/Hygienic Practices	Wash with water if exposed to dust.	