

MATERIAL SAFETY DATA SHEET

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CHEMTREC: 800/424-9300
POISON CENTER: 800/562-8236

Date of Last Revision: 11-21-95

SECTION 1
PRODUCT IDENTIFICATION

CHEMICAL NAME(S) AND SYNONYM(S): Al umi num FORMULA: Al

CHEMICAL FAMILY: Metal CHEM ABSTRACT NO.: 7429-90-5

TSCA: Product is listed. CAL. MOLECULAR WEIGHT: 26-98

SECTION 2
INGREDIENTS/SUMMARY OF HAZARDS

<u>INGREDIENT(S)</u>	<u>CAS #</u>	<u>%</u>	<u>TLV</u>	<u>OSHA PEL</u>
Al umi num	7429-90-5	100	10mg/m3	15mg/m3

SECTION 3
PHYSICAL DATA

BOILING POINT (°C) : 2450 DENSITY (gm/cc): 2.7
VAPOR PRESSURE: 1mm @ 1284 % VOLATILE BY VOLUME: N/A
REACTION WITH WATER: Moderate EVAPORATION RATE: N/A
SOLUBILITY WITH WATER: Insoluble MELTING POINT (°C): 660
APPEARANCE/ODOR: Color varies from dull gray to metallic silver, no odor.

OTHER: Soluble in HCl, H2SO4 and Alkalies.

SECTION 4

FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT/METHOD: N/A

AUTOIGNITION TEMP (°C): N/A

FLAMMABILITY: Flammable *only as a fine dust powder.*

EXTINGUISHING MEDIA: (x) Water () Foam () Class D Extinguisher
(x) Dry Chemical () CO(2) () Other

(specify):

SPECIAL FIRE FIGHTING PROCEDURES: DO NOT USE WATER! Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Dust clouds may be explosive, molten Aluminum may explode on contact with water. Damp Aluminum dust may spontaneously heat with liberation of hydrogen to form explosive air mixtures.

SECTION 5

HEALTH HAZARD DATA

TOXICITY DATA: No specific data on this material.

HMS HAZARD RATING:

HEALTH:	1	FLAMMABILITY:	2
REACTIVITY:	1	PERSONAL PROTECTION:	J

ROUTE(S) OF ENTRY: (x) Inhalation () Skin (x) Ingestion

EFFECTS OF OVEREXPOSURE (acute and chronic)

INHALATION: Has been reported to cause pulmonary fibrosis. May be mechanically irritating to lungs and upper respiratory tract, causing coughing and sneezing.

DERMAL/EYE CONTACT: Particles may cause mechanical irritation to the eyes and local irritation to the skin.

OTHER (specify): Ingestion in massive doses may cause gastrointestinal irritation and may be toxic.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory disorders

CARCINOGENICITY: None NTP: IARC MONOGRAPHS: OSHA REGULATED:

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: Induce vomiting. Seek medical attention.

INHALATION: Remove victim to fresh air. Administer oxygen. Seek medical attention.

SKIN: Brush material off skin. Wash affected area with soap and water.

EYES: Flush eyes with water for 15 mins. Seek medical attention.

**SECTION 6
REACTIVITY DATA**

**STABILITY: (x) Stable () Unstable
CONDITIONS CONTRIBUTING TO UNSTABILITY:**

**INCOMPATIBILITY (materials to avoid):
() Water () Combustible materials () Strong bases
() Reducing Agents () Strong oxidizing materials () Strong acids
() Other (specify): See attached sheet.**

HAZARDOUS DECOMPOSITION PRODUCTS: May release acrid smoke and irritating fumes.

HAZARDOUS POLYMERIZATION: () May occur (x) Will not occur

**CONDITIONS TO AVOID: Incompatible materials, heat, flame and sparks.

**SECTION 7
SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wearing full protective clothing, isolate the area and insure proper ventilation. Vacuum up spill and place in a container for proper disposal. Take care not to raise dust.

WASTE DISPOSAL METHOD: In accordance with regulations.

SECTION 8
SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION: (Specify type) NIOSH/MSHA approved respirator. Use dust and fume respirator where exposure limits may be reached.

VENTILATION: LOCAL EXHAUST: Recommended to maintain exposure below TLV
MECHANICAL (General): Recommended
SPECIAL: Handle in controlled atmosphere.

PROTECTIVE GLOVES: Recommended

EYE PROTECTION: (x) Safety Glasses with Side Shields
() Chemical Workers Dust-Proof Goggles (under dusting conditions)
() Gas-Tight Goggles or Equivalent
() Other (specify):

OTHER PROTECTIVE EQUIPMENT: Maintain sink, safety shower and eyewash fountain in the work area. Wear full protective clothing at all times.

SECTION 9
SPECIAL PRECAUTIONS AND TRANSPORTATION REGULATIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed containers in a cool, dry place. Wash hands and face thoroughly. Store away from incompatible materials.

TRANSPORTATION REQUIREMENTS:
DOT CLASS: Flammable Solid
UN NUMBER: 1396
IMCO CLASS: 4.3

OTHER: SPC
ND = No Data Found NA = Not Applicable

MATERIAL SAFETY DATA SHEET

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