MATERIAL SAFETY DATA SHEET

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Emergency Phone Numbers:
CHEMTREC: 800/424-9300
POISON CENTER: 800/562-8236

Date of Last Revision: 11-21-95

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SECTION 1
PRODUCT IDENTIFICATION

CHEMICAL NAME(S) AND SYNONYM(S):  Aluminum
FORMULA: Al

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

TSCA: Product is listed.
CAL. MOLECULAR WEIGHT: 26.98

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SECTION 2
INGREDIENTS/SUMMARY OF HAZARDS

<table>
<thead>
<tr>
<th>INGREDIENT(S)</th>
<th>CAS #</th>
<th>%</th>
<th>TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>100</td>
<td>10mg/m³</td>
<td>15mg/m³</td>
</tr>
</tbody>
</table>

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SECTION 3
PHYSICAL DATA

BOILING POINT (°C): 2450
DENSITY (g/ml 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.

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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.

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SECTION 5
HEALTH HAZARD DATA

TOXICITY DATA: No specific data on this material.

HMIS 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

CARCINOGENCITY: 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.

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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.

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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.

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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.

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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
MATERIAL SAFETY DATA SHEET

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