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**Material Safety Data Sheet**  
**(29 CFR Part 1910.1200 - Hazard Communication)**

**SECTION 1 - IDENTIFICATION**

Material/Product: Aluminum Deoxidizing Shot, Nuggets, Notch Bar  
Manufacturer/Distributor: ASI International, Inc.  
Address: 4595 Van Epps Road  
Cleveland, Ohio 44131  
Producer: Various Aluminum Smelters

MSDS Rev.  
Date Prepared: January 10, 2004  
During Normal Business Hours  
Telephone: (216) 485 1800  
Telephone: CHEMTREC  
1-800-424-9300

**SECTION 2 - HAZARDOUS COMPONENTS**

Hazardous Component	CAS No.	%	OSHA PEL (mg/M)	ACGIH TLV (mg/M)	Other Limits
Significant Ingredients			TLV's may be applicable to individual elements		
Aluminum	7429-90-5	Over 96	N/A	10 as Al	
Copper	7440-50-8	.01-0.05	.01 as Copper	0.2 as Copper	
Silicon	7440-21-3	.01-3.0	N/A	10 as Si	
Zinc	7440-66-6	.01-8.0	5.0 as Zn	10.0 as Zn	
Iron	7439-89-6	.01-1.0	10.0 as Fe	5.0 as Fe	

N/A = Not Applicable N/K = Not Known

**SECTION 3 - PHYSICAL / CHEMICAL CHARACTERISTICS**

Boiling Pt: N/A  
Vapor Pressure: N/A  
Vapor Density: N/A  
Reactivity in Water: N/A  
Appearance and Odor: Silvery colored solid and no odor  
Density: N/A  
Evaporation Rate: N/A  
Solubility in Water: Nil  
Melting Point Range: 940-1220° F

**SECTION 4 - FIRE AND EXPLOSION DATA**

Flash Point: None  
Extinguishing Media: N/A  
Unusual Fire & Explosion Hazards: Dust clouds may be explosive. Molten aluminum may explode on contact with water or react violently with water, rust, and certain metal oxides. Avoid use of water in fighting fires around molten aluminum.  
Flammable Limits: Lel: N/A Uel: N/A  
Special Firefighting Procedures: Use fire fighting methods appropriate for surrounding fire. Small chips, fine turnings or dust may ignite under certain circumstances. Use coarse water spray on finely divided metal such as turnings; Class D extinguishers or dry sand on fines or dust. Don not use halogenated extinguishing agents on dust or fines.

**SECTION 5 - REACTIVITY DATA**

Stability: Stable. Conditions to Avoid: Avoid contact of molten Aluminum alloy with water.  
Materials to Avoid: Finely divided aluminum in contact with water will generate hydrogen gas (explosive) and heat. Reacts violently with halogenated hydrocarbons.  
Hazardous Polymerization Reactions / Decomposition Products: Contact with acids and alkalines will generate hydrogen gas.

**SECTION 6 - HEALTH HAZARD DATA**

Route(s) of Entry: Inhalation (Yes) Skin (No) Eyes (No) Ingestion (Yes)  
Health Hazards: Inhalation of aluminum alloy fume and dust may aggravate pumonary disorders and cause irritation and shortness of breath.

**SECTION 6 - HEALTH HAZARD DATA (CON'T)**

Acute - Irritation to eyes; fatigue; weakness; lassitude; insomnia; constipation; abdominal pain; colic.

Chronic - Pulmonary fibrosis; facial pallor; anemia; gingival lead line; tremors; wrist drop; encephalopathy; nephropathy, hypotension; Lead, cadmium, nickel, beryllium and chromium have been implicated as carcinogens.

Toxicity Data: N/A

Dusts of Silicon Carbide briquettes are classified as nuisance dust by ACGIH and OSHA

Emergency and First Aid Procedures: Consult a physician Inhalation: Remove to fresh air. Skin: Wash with water.

Eyes: Flush with water to remove particles. Ingestion: N/A

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE**

Spills/Leaks: Solids: reconsolidate and reband ingots or sows for recycling.

Liquids: contain spill with sand or earth or other non-flammable materials. Allow spill to freeze and cool, and collect for recycling by remelting.

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

Handling, Use and Storage: N/A

Grinding or Crushing: N/A

Labeling: N/A

**SECTION 8 - CONTROL MEASURES**

Respiratory Protection: Required when welding or machining; wear a particle dust mask or a 1/2 cartridge-type mask.

Ventilation: Engineering control by forced ventilation when aluminum alloys are processed by heat cutting, welding, and brazing.

Gloves: Protective gloves are recommended during handling as lump material may have sharp edges.

Eye Protection: Safety glasses with side shields. Clothing: Long-sleeved shirt and long-length pants. Other:

N/A

N/A = Not Applicable, N/K = Not Known

Please ensure that all persons coming into contact with this product are aware of the information contained in this MSDS Sheet. Information presented herein has been compiled from sources considered to be reliable and accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. It is the user's responsibility to determine for himself the suitability of any material for a specific use and to adopt such safety precautions as may be necessary. If you need any further information from us to make the determinations which you must make to use this material safely, please contact ASI International, Inc.

**SUPPLIER NOTIFICATION****Aluminum Deox Shot, Notch Bar and Nuggets**

The above listed product contains no toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372, based upon our knowledge of the raw materials comprising this product.

This notification is attached to the product Materials Safety Data Sheet (MSDS) and must not be detached from the MSDS. Any copying or redistribution of the MSDS shall include copying and redistribution of this notice attached to copies of the MSDS subsequently redistributed.

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