



Material Safety Data Sheet

(*Essentially Similar* to Form OSHA-174)

Reynolds Metals Company

R-1087-19

DATE PREPARED
11/17/88

REVISION DATE
4/05/94

MSDS #
5244

SECTION 1 - MATERIAL IDENTIFICATION

MANUFACTURER: Reynolds Metals Company
P. O. Box 27003
Richmond, Virginia 23261-7003

EMERGENCY TELEPHONE NUMBER:
(804) 281-2265

PRODUCT CLASS: Aluminum Shot
TRADE NAME: Small Mesh and Sphery Shot

MANUFACTURER'S CODE IDENTIFICATION
Small Mesh and Sphery Shot

SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	Typical Percent	OSHA PEL			ACGIH TLV			CAS Numbers
		Gas ppm	Respirable Dust/Mist mg/m ³	Total Dust mg/m ³	Gas ppm	Respirable Dust/Mist mg/m ³	Total Dust mg/m ³	
Aluminum*	min 97.0		5	15		5	10	7429-90-5
*On SARA Section 313 list.								

SECTION 3 - PHYSICAL DATA OF MATERIAL

BOILING POINT: ND
SPECIFIC GRAVITY: ND
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
COEFFICIENT OF WATER/OIL DIST: N/A
ODOR THRESHOLD: N/A

FREEZING POINT: 637-651C
SOLUBILITY IN WATER: Insoluble
PHYSICAL STATE: Solid
pH: N/A
EVAPORATION RATE: N/A
APPEARANCE/ODOR: Odorless, gray-silver color

SECTION 4 - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: YES? NO? X

WHAT CONDITIONS? N/A

FLASH POINT (Method Used): N/A

UEL: N/A
LEL: N/A

MEANS OF EXTINCTION:

This product is not combustible. For fires involving aluminum fines or chips, use dry sand or Class D extinguishing agents approved for this use. Do not use halogenated extinguishing agents.

SPECIAL PROCEDURES:

Suspended aluminum dust, allowed to accumulate in a confined area, may be explosive. If remelted, moisture present in cavities or on external surfaces may cause an explosion.

AUTO IGNITION TEMPERATURE: N/A


HAZARDOUS COMBUSTION PRODUCTS: None known

SENSITIVITY TO IMPACT: None known

SENSITIVITY TO STATIC DISCHARGE: None known

ND = NOT DETERMINED

N/A = NOT APPLICABLE



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SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY: Stable

REACTIVITY AND UNDER WHAT CONDITIONS:

If remelted, moisture present in cavities or on external surfaces may cause an explosion. Bulk aluminum dust may heat spontaneously.

INCOMPATIBILITY TO OTHER SUBSTANCES:

For aluminum fines: water, some acids, alkalis, and halogenated compounds. See NFPA#491M for specific incompatible materials. National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

HAZARDOUS DECOMPOSITION PRODUCTS:

Finely divided aluminum reacts with water, some acids, and alkalis to produce hydrogen gas. Aluminum in contact with halogenated compounds can produce violent reactions and/or explosions.

SECTION 6 - TOXICOLOGICAL PROPERTIES OF PRODUCT

ROUTE(S) OF ENTRY:

INHALATION? YES
EYE CONTACT? YES

INGESTION? NO
SKIN ABSORPTION? NO

EFFECTS OF ACUTE EXPOSURE:

Aluminum dust is considered a nuisance particulate. High exposure to aluminum dust or fume may produce irritation of eyes and respiratory system.

EFFECTS OF CHRONIC EXPOSURE: None known

LD50 OF PRODUCT:

Aluminum - Not known

LC50 OF PRODUCT:

Aluminum - Not known

IRRITANCY OF PRODUCT: Mild

EXPOSURE LIMITS OF PRODUCT:

Use levels for specific ingredients shown in Section 2.

SENSITIZATION TO PRODUCT: None known

SYNERGISTIC MATERIALS: None known

CARCINOGENICITY: None known

REPRODUCTIVE EFFECTS: None known

MUTAGENICITY: None known

MUTAGENICITY: None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Pre-existing upper respiratory and lung diseases such as, but not limited to, Bronchitis, Emphysema, and Asthma.

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: As needed.

EYEWEAR: Safety glasses, goggles, or face shield, as needed.

RESPIRATORY: Use NIOSH/MSHA-approved particulate respirator, if TLVs or PELs are exceeded.

FOOTWEAR: Safety shoes, as needed.

CLOTHING:

If remelted, see Aluminum Association publication "Guidelines for Handling Molten Aluminum", #69, 900 19th St. N.W., Suite 300, Washington, D.C. 20006.

ENGINEERING CONTROLS:

If ventilation is used to convey aluminum dust, generated by grinding, sawing, etc., special ventilation procedures may be necessary to avoid explosion hazards. See National Fire Protection Association codes, NFPA #65 and #651.

LEAK AND SPILL PROCEDURE: If remelted, see Aluminum Association publication #69 listed above.

WASTE DISPOSAL:

For disposal of this material as a waste, act in accordance with all applicable federal, state, and local waste management regulations.

HANDLING PROCEDURES AND EQUIPMENT: If remelted, see Aluminum Association publication #69 listed above.

STORAGE REQUIREMENTS: If remelted, make certain no water or moisture is present in cavities or on external surfaces.

SPECIAL SHIPPING INFORMATION: None known

SECTION 8 - FIRST AID MEASURES

SKIN: For minor burns, apply cold water. For severe burns, seek immediate medical attention.

EYE: Immediately flush with water for 15 minutes. Seek medical attention if irritation persists.

INHALATION: Remove to fresh air.

INGESTION: N/A

SECTION 9 - SPECIAL PRECAUTIONS AND COMMENTS

SARA

This product contains a 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 372.

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