

SAFETY DATA SHEET

Revision: 07/28/15 Replaces version: 12/18/2013

SECTION 1- IDENTIFICATION OF SUBSTANCE

Classification: Zinc Family: Inert Material/ Metal
Product(s) Name: RSZ- xxx- yy(y); ZN SHOT/ NEEDLES/ GRANULES K-3xx ; ZN FLAKE/ GRANULES

SECTION 2- HAZARDS IDENTIFICATION**POTENTIAL HEALTH EFFECTS TO HUMANS**

As shipped, no adverse effects are expected from shot, needle, flake or granular product.

Inhalation: May cause mechanical irritation; possible difficulty in breathing, sneezing, or coughing. **Ingestion:** Extremely large oral dosages may produce gastrointestinal disturbances. Pain, stomach cramps and nausea may occur.

Skin Contact: May cause irritation. **Eye Contact:** May cause irritation.

Chronic Exposure: No adverse health effects expected.

POTENTIAL HAZARD TO ENVIRONMENT: See section 12

SECTION 3- COMPOSITION/ INFORMATION ON INGREDIENTS

Identity	CAS No.	OSHA PEL mgm/ m ³	ACGIH- TLV mgm/ m ³	% By Weight
Zinc	7440-66-6	5.0 9 (fume)	5.0 (ZnO fume)	>90
Aluminum	7429-90-5	--	10.0	6 max
Copper	7440-50-8	--	00.1 (fume)	3 max
Other	Not Hazardous			< 0.1

SECTION 4- FIRST AID MEASURES

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Do not induce vomiting unless directed by medical personnel. For large quantity ingestion call a physician immediately.

Skin Contact: Wipe off excess material from skin then wash with soap and water.

Zinc fumes may produce 'metal fume fever', a delayed, generally benign, transient, reversible, flu- like condition.

SECTION 5- FIRE FIGHTING MEASURES

Fire: Zinc particulates are not pyrophoric but will burn in air at elevated temperatures. May release flammable hydrogen gas upon contact with strong acids or alkalis. Contact with strong oxidizers may cause fire. Zinc dust/ powder is reactive with water.

Explosion: Non- explosive in shot, needle, flake or granular form.

Fire Extinguishing Media: Smother with dry sand or earth or other suitable dry smothering agent.

Zinc fumes may produce 'metal fume fever', a delayed, generally benign, transient, reversible, flu- like condition.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure sufficient supply of air. Avoid buildup of dust. Avoid inhaling.

Environmental Measures: Prevent surface and ground water infiltration and/ or ground penetration.

Method for Cleaning Up: Collect mechanically and dispose of according to Section 13.

SECTION 7- HANDLING AND STORAGE

Handling/ Storage: Store in a cool, dry, ventilated area away from sources of heat, moisture and strong acids/ alkalis. Protect containers from physical damage. Good housekeeping practices are encouraged when working with zinc products.

SECTION 8- EXPOSURE CONTROL/ PERSONAL PROTECTION

Ventilation: Local and/ or exhaust. **Eye Protection:** Safety glasses.

Respiratory Protection: No protection is required for product as shipped.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance: Silver/ Gray. Odorless. Solid, (Flake, Granule, Shot, Needle).

Melting point: 419°C (787°F) **Boiling point:** 906°C (1663°F) **Solubility:** Insoluble in water as provided

Vapor Density: N/A. **Vapor Pressure :** 1 @ 487°C (909°F) **Molecular Weight:** 65 **Specific Gravity:** 7.3

SECTION 10- STABILITY AND REACTIVITY

Stable under ordinary conditions of use and storage.

Hazardous decomposition materials: Hydrogen in moist air, (dust/ powder). Zinc metal, when melted, produces zinc vapor which may oxidize and condense in air to form zinc fume. **Incompatibilities:** May react violently with strong oxidants, acids, and alkalis.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

SECTION 11- TOXICOLOGICAL INFORMATION

Zinc: Slight skin irritant.

Carcinogenicity: Zinc (7440-66-6), Aluminum(7429-90-5), Copper(7440-50-8) not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

SECTION 12- ECOLOGICAL INFORMATION

Zinc and its alloys under solid form, such as manufactured items, do not present any immediate hazard to the environment.

50/53 Aquatic Toxicity: Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

SECTION 13- DISPOSAL CONSIDERATIONS

Reuse or recycle material whenever possible. Dispose of material in accordance to local, state, or federal regulations.

SECTION 14- TRANSPORT INFORMATION

UN number 3077 Environmentally hazardous substance, solid, N.O.S. (Zinc shot, needle, flake or granular)

Road/ Rail Transport (ADR/ RID):

Class/ packaging group: 9/ III Classification code: M7 Hazard identification number: 90 LQ: 27

Sea Transport: IMDG- code: 9/ III EmS: F-A, S-F Marine Pollutant: N.A.

Air Transport: IATA: 9/-/ III

U.S. freight classification: CL55 Harmonized freight code for zinc shot, needle, flake or granular: 7903.90

SECTION 15- REGULATORY INFORMATION

EU Consolidated Inventories. Listed. EC Number 231-175-3

CEPA DSL (Canada): On Domestic Substances List; Acceptable for use under the provisions of CEPA.

CERCLA TSCA (USA): Listed, Section 103 CERCLA (40 CFR 302.4). Listed TSCA Chemical Inventory (40 CFR 710).

Zinc can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Massachusetts, Rhode Island, and Michigan.

SECTION 16- OTHER INFORMATION

This Safety Data Sheet is in accordance with OSHA (USA), WHMS(Canada), EC Directive 2001/58/EC (Europe)

Revision: 04/ 21/ 2011 Replaces version 04/ 15/ 2008

The information in this Safety Data Sheet was obtained from sources believed to be reliable, but is not guaranteed. This information may be used in a manner which is beyond our knowledge and/ or control. Therefore, this information is provided for advice only, with no representation of warranty, either express or implied.