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MATERIAL SAFETY DATA SHEET (MSDS)**TIN METAL GRANULAR LR****1. Product Identification**

Synonyms: Tin; tin flake; tin granular; stannum
CAS No.: 7440-31-5

Product Coad: T0206600500

Molecular Weight: 118.71
Chemical Formula: Sn

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Tin	7440-31-5	90 - 100%	Yes

3. Hazards Identification

Emergency Overview CAUTION! MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Inhalation: No adverse effects expected but dust may cause mechanical irritation.

Ingestion: Large doses may cause nausea, vomiting, and diarrhea.

Skin Contact: No adverse effects expected. May cause mild irritation and redness.

Eye Contact: No adverse effects expected but dust may cause mechanical irritation.

Chronic Exposure: Prolonged inhalation of the dust or fume may result in a benign pneumoconiosis, producing distinctive changes in the lungs with no apparent disability or complications.

Aggravation of Pre-existing Conditions: No adverse health effects expected.

4. First Aid Measures

Inhalation: Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact: Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

5. Fire Fighting Measures

Fire: Autoignition temperature:

Dust Cloud : 630C (1166F);

Dust Layer: 430C (806F).

Explosion: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Minimum explosible concentration: 0.19 g/l Particle size and air concentration determine reactivity.

Fire Extinguishing Media: USE dry sand, graphite, dolomite, sodium chloride. NEVER USE water, halogenated agents, or class A, B, or C extinguishers.

Special Information: Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from any source of heat or ignition.

Avoid dust dispersal. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

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8. Exposure Controls/Personal Protection**Airborne Exposure Limits:** -OSHA Permissible Exposure Limit (PEL):2 mg/m3 (TWA)-ACGIH Threshold Limit Value (TLV):2 mg/m3 (TWA)

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. **Personal Respirators (NIOSH Approved):** If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. **Skin Protection:** Wear protective gloves and clean body-covering clothing. **Eye Protection:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Uniform, silvery granules or mossy flakes. **Odor:** Odorless. **Solubility:** Insoluble in water. **Density:** 7.31 **Boiling Point:** 2507C (4545F) **Melting Point:** 231.9C (450F)

10. Stability and Reactivity

Stability: Powder will oxidize, especially in the presence of moisture. Metal normally has a protective film of stannic oxide which thickens as the temperature is raised. **Hazardous Decomposition Products:** No hazardous decomposition products. **Hazardous Polymerization:** Will not occur. **Incompatibilities:** Halogens and halogen trifluorides, cupric nitrate, sodium and potassium peroxide, sulfur, and some acids. **Conditions to Avoid:** Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Tin (7440-31-5)	No	No	None

12. Ecological Information

Environmental Fate: No information found. **Environmental Toxicity:** No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

N/A

16. Other Information

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 1 **Label Hazard Warning:** CAUTION! MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. **Label Precautions:** Avoid contact with eyes, skin and clothing.Wash thoroughly after handling.Avoid breathing dust.Keep container closed.Use with adequate ventilation. **Label First Aid:** If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. **Product Use:** Laboratory Reagent.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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