



SECTION 1 - IDENTIFICATION

Manufacturer:

Black Swan Mfg. Co.
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For any Transportation or Medical Chemical Emergencies call:

INFOTRAC(800) 535-5053 **OR** (352) 323-3500

24 hours per day - 7 days a week

Product Name: 50/50 Solder**Recommended Use:** High quality solder for plumbing and NON-potable water lines.

SECTION 2 – HAZARD(S) IDENTIFICATION

Labels

Health Hazard
Environmental Hazard
Irritant

Signal Word
Warning**HMIS**

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

NFPA**HEALTH HAZARD**

4 – Deadly
3 – Extreme Danger
2 – Hazardous
1 – Slight Hazardous
0 – Normal Material

SPECIFIC HAZARD

Oxidizer
Acid
Alkali
Corrosive
Use NO WATER
Radioactive

**FIRE HAZARD**

Flash Points
4 – Below 73°F
3 – Below 100°F
2 – Above 100°F, Not exceeding 200°F
1 – Above 200°F
0 – Will not burn

REACTIVITY

4 – May detonate
3 – Shock and heat may detonate
2 – Violent chemical change
1 – Unstable if heated
0 – Stable

GHS Classification**Health**

Acute Toxicity: Not Established
Skin Irritation: Not Established
Eye Irritation: Not Established
Skin Sensitization: NO

Environmental

Acute Aquatic Toxicity: Not Established
Chronic Aquatic Toxicity: Cat. 1

Physical

Carcinogenicity: Cat. 2
Reproductive: Cat. 1
Target Organ Toxicity (single): Cat. 2
Target Organ Toxicity (repeated): Cat. 1

Hazardous Statements

H336: May cause drowsiness or dizziness
H351: Suspected of causing cancer
H360: May damage fertility or the unborn child
H372: Causes damage to organs (brain, liver, kidney) through prolonged or repeated exposure
H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements

P102: Keep out of reach of children
P202: Do not handle until all safety precautions have been read and understood
P260: Do not breathe dust, fumes, gas, mist, vapors, or spray
P264: Wash thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P271: Use only outdoors or in a well-ventilated area
P273: Avoid release to the environment
P280: Wear protective gloves, protective clothing, eye & face protection

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemicals	CAS#	EINECS#	REACH Pre-registration Number	Approx %
TIN	7440-31-5	N/A	N/A	0-100%
LEAD	7439-92-1	N/A	N/A	0-100%

*Unlisted ingredients are not classified as hazardous according to OSHA 1910.1200.

SECTION 4 – FIRST-AID MEASURES

Inhalation: Move into fresh air. Get medical attention.**Skin:** Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water.**Eyes:** Flush with water for 15 minutes. If irritation persists, get medical attention.**Ingestion:** Rinse mouth. If irritation persists, get medical attention.

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SECTION 5 – FIRE-FIGHTING MEASURES

Fire Hazard: Solid massive form of material is not combustible under ordinary fire conditions. Fire and explosion hazards are moderate when material is in the form of dust and exposed to heat or flames. Hazards exist also with chemical reactions, or contact with powerful oxidizers.

Combustion Products: None known.

Extinguishing Media: Dry Chemical powder, Dry Sand, Water Fog, Carbon Dioxide.

Unsuitable Extinguishing Media: Water, Moist Sand.

Protective Equipment: Self-contained breathing apparatus {(SCBA), MSHA/NIOSH}. Full protective gear.

Special Fire Fighting Procedures: Evacuate enclosed areas, stay upwind. Closed or confined quarters require self-contained breathing apparatus, positive pressure hose masks or airline masks.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Prevent contact with skin or eyes. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high.

Protective Equipment: Respirators and protective clothing.

Emergency Procedures: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches and waterways.

Methods for Cleaning Up: If large quantities of dust are spilled, remove by vacuuming or wet sweeping to prevent heavy concentrations of airborne dust. Scrap metal can be reclaimed for use.

SECTION 7 – HANDLING AND STORAGE

Handling

Avoid contact with eyes, skin and clothing. Avoid prolonged breathing of vapor and mist. Use with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep products away from heat, sparks, flames and all other sources of ignition.

Storage

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep away from heat, sparks, open flame and other sources of ignition. **Incompatible Materials:** Acids, bases and oxidizers.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Hazardous Chemicals</u>	<u>Exposure Limits</u>		
	<u>ACGIH-TLV</u>	<u>ACGIH-STEL</u>	<u>OSHA-PEL</u>
Tin	N/A	N/A	2mg/m ³
Lead	N/A	N/A	N/A

Engineering Controls: A source of running water to flush or wash the eyes and skin in case of contact.

Ventilation: Use general and local exhaust ventilation to keep airborne concentrations of dust and fume below the TLV.

Personal Protective Equipment – Respiratory: MSHA/NIOSH approved respirators.

Personal Protective Equipment – Skin: Showering should be required before changing to street clothes. Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis.

Personal Protective Equipment – Eyes: Approved safety glasses or goggles should be worn when working with dusty material.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Silver-gray metal	Flash Point:	Not Established	Vapor Pressure:	1mm Hg @1,492°C
Odor:	Odorless	Specific Gravity:	7.28 – 8.42	Flammability:	Not Established
pH:	Not Established	Solubility (H₂O):	Insoluble	Flammability Limits:	LEL – Not Established
Melting Point:	360-460° F (182-237.78°C)	Evaporation Rate:	Not Established		UEL – Not Established
Freezing Point:	Not Established	Vapor Density:	Not Established		
Boiling Point:	Not Established	VOC:	0 g/l		

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Conditions to avoid: Molten material may react violently with water.

Incompatible materials: Acids, bases and oxidizers.

Hazardous decomposition products: Dust presents moderate fire and explosion hazard.

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SECTION 11 – TOXICOLOGICAL INFORMATION

<u>Hazardous Chemicals</u>	<u>LD₅₀</u>	<u>Toxicity</u>	<u>LC₅₀</u>
Tin	N/A		N/A
Lead	N/A		N/A

Likely Routes of Exposure: Inhalation.

Symptoms and Effect - Inhalation: Fumes may cause metal fever with flu like symptoms.

Skin Contact: Irritation of the skin and mucous membranes and may result in a benign pneumoconiosis. May cause skin and hair discoloration. **Eye Contact:** None. **Ingestion:** None.

Long-Term Effect: None known.

Pre-Existing Conditions: None known.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None known.

Persistence & Degradability: Biodegradable.

Bioaccumulative Potential: None known.

Mobility in soil: In normal use, emission of Volatile Organic Compounds (VOC's) to the air takes place, typically at a rate of 0 g/l.

SECTION 13 – DISPOSAL CONSIDERATION

Dispose of product or container in accordance with federal, state or local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

D.O.T. (U.S.): Not Regulated

SECTION 15 – REGULATORY INFORMATION

Precautionary Label Information: None.

Risk Phrases: None.

Safety Phrases: S2-Keep out of reach of children.

Calif. PRO. 65 – Chemical Warning (California Health and Safety Code #25249.5 ET SEQ). – Warning: This product contains chemicals known to the state of California to cause cancer, birth defects or reproductive harm.

SECTION 16 – OTHER INFORMATION

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act and shall not be used for any other purpose. Black Swan Mfg. Co. urges the customers receiving this Material Safety Data Sheet to study it carefully to become aware of the hazards, if any, of the product involved. In the interest of safety, you should notify your employees, agents and contractors of the information on the sheets.

DATE: 01/01/2026