



GHS SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

<b>Manufacturer:</b> Black Swan Mfg. Co. 4540 W. Thomas St. Chicago, IL 60651-3318 Tel.: 800-252-5796 Fax: 773-227-3705 Web Site : <a href="http://www.blackswanmfg.com">www.blackswanmfg.com</a> E-mail : <a href="mailto:info@blackswanmfg.com">info@blackswanmfg.com</a>	For any Transportation or Medical Chemical Emergencies call:  <p style="text-align: center;"><b>INFOTRAC</b></p> <p style="text-align: center;">(800) 535-5053 <b>OR</b> (352) 323-3500</p> <p style="text-align: center;">24 hours per day - 7 days a week</p>
<b>Product Name: Lead Free Acid Core Solder</b>	<b>Recommended Use:</b> General purpose solder for sheet metal, radiator repair and galvanized gutters.

SECTION 2 – HAZARD(S) IDENTIFICATION

<b>Labels</b> None	<p style="text-align: center;"><b>NFPA</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <b>HEALTH HAZARD</b>            4 – Deadly            3 – Extreme Danger            2 – Hazardous            1 – Slight Hazardous            0 – Normal Material         </td> <td style="width: 50%; border: none;"> <b>FIRE HAZARD</b>            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         </td> </tr> </table> <div style="text-align: center;"> </div> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <b>SPECIFIC HAZARD</b>            Oxidizer OX            Acid ACID            Alkali ALK            Corrosive COR            Use NO WATER             Radioactive  </td> <td style="width: 50%; border: none;"> <b>REACTIVITY</b>            4 – May detonate            3 – Shock and heat may detonate            2 – Violent chemical change            1 – Unstable if heated            0 – Stable         </td> </tr> </table>	<b>HEALTH HAZARD</b> 4 – Deadly 3 – Extreme Danger 2 – Hazardous 1 – Slight Hazardous 0 – Normal Material	<b>FIRE HAZARD</b> 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	<b>SPECIFIC HAZARD</b> Oxidizer OX Acid ACID Alkali ALK Corrosive COR Use NO WATER Radioactive	<b>REACTIVITY</b> 4 – May detonate 3 – Shock and heat may detonate 2 – Violent chemical change 1 – Unstable if heated 0 – Stable	<p style="text-align: center;"><b>GHS Classification</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p style="text-align: center;"><b>Health</b></p>           Acute Toxicity: Not Established            Skin Irritation: Not Established            Eye Irritation: Not Established            Skin Sensitization: NO         </td> <td style="width: 50%; border: none;"> <p style="text-align: center;"><b>Environmental</b></p>           Acute Aquatic Toxicity: Not Established            Chronic Aquatic Toxicity: Not Established         </td> </tr> </table> <hr/> <p style="text-align: center;"><b>Physical</b> None</p>	<p style="text-align: center;"><b>Health</b></p> Acute Toxicity: Not Established Skin Irritation: Not Established Eye Irritation: Not Established Skin Sensitization: NO	<p style="text-align: center;"><b>Environmental</b></p> Acute Aquatic Toxicity: Not Established Chronic Aquatic Toxicity: Not Established
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<b>Signal Word</b> None	<b>HMIS</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">HEALTH <b>1</b></td> <td style="width: 50%; border: none;">FLAMMABILITY <b>0</b></td> </tr> <tr> <td style="width: 50%; border: none;">REACTIVITY <b>0</b></td> <td style="width: 50%; border: none;"></td> </tr> </table>	HEALTH <b>1</b>	FLAMMABILITY <b>0</b>	REACTIVITY <b>0</b>				
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<p style="text-align: center;"><b>Hazardous Statements</b> None</p>		<p style="text-align: center;"><b>Precautionary Statements</b></p> P102: Keep out of reach of children P261: Avoid breathing dust/fume/gas/mist/vapors/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						

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemicals</u>	<u>CAS#</u>	<u>EINECS#</u>	<u>REACH</u> <u>Pre-registration Number</u>	<u>Approx %</u>
TIN	7440-31-5	N/A	N/A	90-98%
ANTIMONY	7440-36-0	N/A	N/A	2-10%

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

SECTION 4 – FIRST-AID MEASURES

<p><b>Inhalation:</b> Move into fresh air. If irritation persists, get medical attention.</p> <p><b>Skin:</b> Wash skin thoroughly with soap and water. Remove contaminated clothing.</p> <p><b>Eyes:</b> Flush with water for 15 minutes. If irritation persists, get medical attention.</p> <p><b>Ingestion:</b> Rinse mouth. Get medical attention.</p>
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# GHS SAFETY DATA SHEET

## 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:** Allow to solidify and collect in sealed containers for disposal. Return to supplier for reprocessing.

## SECTION 7 – HANDLING AND STORAGE

### Handling

No food or drink should be allowed in areas where these products are handled. Personnel must wash thoroughly after handling the metal before drinking, eating or smoking.

### Storage

Store in dry conditions. Store away from incompatible materials.  
**Incompatible Materials:** Strong acids, oxidizers, reducing agents, halogens.

## 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	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Antimony	N/A	N/A	0.05mg/m <sup>3</sup>

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

**Ventilation:** If fume or dust is being generated, mechanical ventilation must be provided to maintain exposure level below TLV's.

**Personal Protective Equipment – Respiratory:** Only required if TLV's are exceeded. Use a NIOSH/MSHA approved respirator for toxic dust and/or fume.

**Personal Protective Equipment – Skin:** Not normally needed but wash hands thoroughly.

**Personal Protective Equipment – Eyes:** Wear safety glasses as required.

## SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b> Gray metal	<b>Flash Point:</b> Not Established	<b>Vapor Pressure:</b> Not Established
<b>Odor:</b> Odorless	<b>Specific Gravity:</b> Not Established	<b>Flammability:</b> Not Established
<b>pH:</b> Not Established	<b>Solubility (H2O):</b> Not Established	<b>Flammability Limits:</b> LEL – Not Established
<b>Melting Point:</b> 232°F	<b>Evaporation Rate:</b> Not Established	UEL – Not Established
<b>Freezing Point:</b> Not Established	<b>Vapor Density:</b> 11.36	
<b>Boiling Point:</b> Not Established	<b>VOC:</b> 0 g/l	

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## SECTION 10 – STABILITY AND REACTIVITY

**Stability:** Stable.

**Hazardous polymerization:** Will not occur.

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

**Incompatible materials:** Strong acids, oxidizers, reducing agents, halogens.

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

## SECTION 11 – TOXICOLOGICAL INFORMATION

<u>Hazardous Chemicals</u>	<u>Toxicity</u>	
	<u>LD<sub>50</sub></u>	<u>LC<sub>50</sub></u>
Tin	N/A	N/A
Antimony	N/A	N/A

**Likely Routes of Exposure:** Eye Contact and Ingestion.

**Symptoms and Effect - Inhalation:** Inhalation of dusts and fumes must be avoided. Irritation of nose and bronchial tracts may occur as well as effects due to absorption of lead, ect. in blood stream. **Skin Contact:** Not a route of entry. **Eye Contact:** Dust or fume will be irritant. **Ingestion:** Ingestion of dust or fumes may be avoided. Lead is toxic and cumulative, affecting the kidneys, reproductive system and nervous system. Symptoms of chronic overexposure include anemia, insomnia, weakness, irritability, constipation and stomach pains. Tin is not regarded as toxic but excessive exposure can cause fever, nausea, stomach cramps or diarrhea. This product when used for welding and similar applications produces chemicals known to cause cancer and birth defects (or other reproductive harm).

**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.

## 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: 01/01/2021**