



SECTION 1 - IDENTIFICATION

Table with 2 columns: Manufacturer information (Black Swan Mfg. Co., Chicago, IL) and For any Transportation or Medical Chemical Emergencies call: INFOTRAC (800) 535-5053 OR (352) 323-3500. Product Name: 95/5 Solder-N-Flux. Recommended Use: Used for joining copper tubing and fittings.

SECTION 2 – HAZARD(S) IDENTIFICATION

Table with 2 main columns: Labels (Health Hazard, Irritant, Signal Word Warning, HMIS) and NFPA (Health Hazard, Fire Hazard, Specific Hazard, Reactivity). GHS Classification: Health (Acute Toxicity: Not Established, Skin Irritation: Not Established, Eye Irritation: Cat. 2A, Skin Sensitization: Yes), Environmental (Acute Aquatic Toxicity: Not Established, Chronic Aquatic Toxicity: Not Established), Physical (None). Hazardous Statements: H302, H315, H319. Precautionary Statements: P102, P262, P264, P281.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Table with 5 columns: Chemicals, CAS#, EINECS#, REACH Pre-registration Number, Approx %. Rows include ANTIMONY, TIN, ZINC CHLORIDE, and AMMONIUM CHLORIDE.

SECTION 4 – FIRST-AID MEASURES

Table with 1 column: First-aid measures for Inhalation, Skin, Eyes, and Ingestion.

GHS SAFETY DATA SHEET

SECTION 5 – FIRE-FIGHTING MEASURES

Fire Hazard: With excessive heating, material could emit toxic fumes.
Combustion Products: None known.
Extinguishing Media: Carbon Dioxide, Dry Chemical, Fog (Water).
Unsuitable Extinguishing Media: None known.
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. Use water spray to cool containers, to flush spills from sources of ignition and to disperse vapors.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Prevent contact with skin or eyes.
Protective Equipment: Wear suitable respiratory protective equipment.
Emergency Procedures: Remove all sources of ignition and ventilate area. For leaks, stop leak if it can be done safely. 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: Flush with large quantities of water and pickup with absorbing materials.

SECTION 7 – HANDLING AND STORAGE

Handling

Avoid contact with eyes and skin. 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. Keep containers closed when not in use. If handling in large quantities, wear rubber gloves and face shield.

Storage

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep container closed when not in use. Keep away from heat, sparks, open flame and other sources of ignition. **Incompatible Materials:** Zinc Chloride is incompatible with Cyanides & Sulfide Salts.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

<u>Hazardous Chemicals</u>	<u>ACGIH-TLV</u>	<u>ACGIH-STEL</u>	<u>OSHA-PEL</u>
ANTIMONY	0.5 mg/m ³	N/A	0.5 mg/ m ³
TIN	2.0 mg/ m ³	N/A	2.0 mg/ m ³
ZINC CHLORIDE	1.0 mg/ m ³	N/A	1.0 mg/ m ³
AMMONIUM CHLORIDE	10.0 mg/ m ³	N/A	N/A

Engineering Controls: A source of running water to flush or wash the eyes and skin in case of contact. Use local exhaust as needed.
Ventilation: Local ventilation is adequate.
Personal Protective Equipment – Respiratory: Not required for normal use.
Personal Protective Equipment – Skin: Rubber gloves
Personal Protective Equipment – Eyes: Safety goggles.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Gray, Silvery paste	Flash Point:	Not Established	Vapor Pressure:	Not Established
Odor:	None	Specific Gravity:	4.03	Flammability:	Not Established
pH:	Not Established	Solubility (H2O):	Slightly Miscible	Flammability Limits:	LEL – Not Established
Melting Point:	464°F	Evaporation Rate:	Not Established		UEL – Not Established
Freezing Point:	Not Established	Vapor Density:	Not Established		
Boiling Point:	Tin 2260°C/Antimony 1635°C	VOC:	0 g/l		

GHS SAFETY DATA SHEET

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Conditions to avoid: Avoid contact with concentrated Alkalies. High temperatures.

Incompatible materials: Zinc Chloride is incompatible with Cyanides & Sulfide Salts.

Hazardous decomposition products: None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

<u>Hazardous Chemicals</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
ANTIMONY	N/A	N/A
TIN	N/A	N/A
ZINC CHLORIDE	N/A	N/A
AMMONIUM CHLORIDE	N/A	N/A

Likely Routes of Exposure: Skin Contact and Ingestion.

Symptoms and Effect - Inhalation: Dust from dried down product can cause injury to respiratory tract. Severe exposure can cause lung damage. **Skin Contact:** Prolonged contact causes burns, skin irritation and discomfort with rash. **Eye Contact:** Will cause eye irritation with discomfort, tearing or blurring of vision. **Ingestion:** Severe damage to internal organs (Esophagus & Pylorus) will occur if swallowed in large quantities. Antimony is strongly irritating to mucous membranes and to tissue.

Long-Term Effect: Advanced stages of antimony poisoning may cause fatty degeneration of the liver and other organs. The gastrointestinal tract shows marked congestion and edema.

Pre-Existing Conditions: None known.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: None known.

Persistence & Degradability: None known.

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: Irritant and Health Hazard.

Risk Phrases: **R22**-Harmful if swallowed. **R41**-Risk of serious damage to eyes.

Safety Phrases: **S2**-Keep out of reach of children. **S9**-Keep container in a well-ventilated place. **S16**-Keep away from sources of ignition-No smoking. **S25**-Avoid contact with eyes. **S26**-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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