

NATIONAL SOLDER CO

Material Safety Data Sheet

OSHA's Hazard Communication Standard

63/36.6/0.4 Tin/Lead/Antimony Alloys

Section I:

NATIONAL SOLDER CO
13 ARKIN STR
INDUSTRIES EAST
GERMISTON
1400

Telephone 011-873 9000

Section II: Hazardous Ingredients/Identity information

Hazardous Component	CAS #	OSHA TWA	ACGIH TWA	Other limits
Tin	7440-31-5	2mg/M3	2mg/M3	NE
* + Lead	7439-92-1	0.05mg/M3	0.05mg/M3	NE
+ Antimony	7440-36-0	0.05mg/M3	0.05mg/M3	NE
% as specified				

Only those ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. An ingredient marked with an asterisk (*) is also listed in 29CFR 1910.1200(D) #4 as a known or suspected cancer hazard.

+ denotes a chemical regulated as toxic by the Environmental Protection Agency (EPA) as outlined in 40CFR Part 372 (section 313)

Section III: Physical/Chemical Characteristics

Specific Gravity: 7.8
Vapour Pressure (mm Hg): 760 @ BP
Vapour Density: NE
Solubility in water: insoluble
Appearance and odour: silver grey solid, odourless

Melting Point: 184 C
Evaporation Rate
(butyl acetate=1): < 1

Section IV: Fire and Explosion Hazard Data

Flash Point: non flammable
Flammable limits lel: NA uel: NA
Extinguishing media: all
Special fire fighting procedures: use self-contained breathing apparatus
Unusual Fire and Explosion Hazards: May release toxic metal & oxide fumes. High concentrations of dust may present explosion hazard. Water trapped below molten metal may explode thus spattering molten metal.

Section V: Reactivity Data

Stability: STABLE Conditions to avoid: none
Incompatibility (materials to avoid): oxidizing materials, turpentine, acids, and chlorides.
Hazardous Decomposition or By-products (incomplete combustion): toxic lead & metal oxide fumes
Hazardous Polymerization: WILL NOT OCCOUR Conditions to avoid: any

Section VI: Health Hazard Data

Routes of entry: Inhalation? Yes Skin? No Ingestion? Yes

Health Hazards (acute and chronic): Contact with dust & fumes may cause skin, eye and respiratory irritation. Ingestion and/or inhalation of material or fumes may result in "metal fume fever", flu like symptoms, insomnia, muscle weakness, nausea and abdominal pain. Gross inhalation or ingestion may be toxic and can result in death. Symptoms of toxicity may take hours or days to manifest. Chronic exposures, inhalation or ingestion, may result in kidney, red blood cell, reproductive & nervous system effects. Health effects may be Cumulative over more exposure. Studies show that health risks vary by individual.

Minimize exposure as a precaution.

Carcinogenicity: not determined NTP? No IARC Monographs? Lead-suspect

Signs and symptoms of exposure: Inhalation-Nose & throat irritation, headache, dizziness, difficulty breathing, coughing, flu like symptoms, metallic taste in mouth. Ingestion- nausea, vomiting, cramps. Skin-redness, burning, rash. Eye-redness, tearing, blurred vision.

Medical Conditions Aggravated by exposure: Blood, kidney, reproductive & nervous system conditions

Emergency first aid procedures:

Skin: Flush with water immediately - Seek medical attention if burns are present.

Eyes: Flush with water for 15 minutes - Seek medical attention

Ingestion: Drink large amounts of water, induce vomiting if practical- seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Support respiration if required - Seek medical attention.

Section VII: Precautions for Safe Handling and Use

Steps to be taken if material is released or spilled: Vacuum, absorb or flush in to a chemical sewer. Do not use any method which will generate dust.

Waste Disposal Method: dispose of in accordance with all local state regulations

