NLA

Product/Trade Name: NLA – Tin/Antimony/Copper/Bismuth NAFTA H.S. DESCRIPTION 8001.20

**SECTION 1. IDENTIFICATION** 

Info furnished by: Hallmark Metals Corporation
Address: 930 Wellington Avenue

Cranston, RI 02910 USA

Emergency Phone: 888 - 467- 8000

### **SECTION 2. HEALTH HAZARDS DATA**

TLV: See Section 3. Primary routes of entry: ingestion of dust, inhalation of dust or fume. Exposure to the massive form of tin presents few hazards in itself. However, normal handling of tin may result in generation of dusts containing the component elements, and inhalation or ingestion of these dusts may present potentially significant health hazards. Thermal cutting and melting of tin may produce fumes containing the components elements, and breathing these fumes may also present potentially significant health hazards. Special precautions should be taken if metal is contaminated: see section ix. Prolonged inhalation of tin fumes or dusts, or ingestion of tin compounds can result in tin poisoning. Symptoms include abdominal pain or colic, constipation, nausea, joint and muscle pains, and muscular weakness. Severe cases of overexposure may lead to central nervous systems disorders, characterized by somnolence, stupor, and ultimately death.

Overexposure to antimony may cause gastrointestinal upset and various nervous complaints, such as sleeplessness, irritability, and muscular pain.

Antimony and arsenic have been identified as potential cancer causing agents. Fumes of copper may cause metal fume fever with flu-like symptoms.

Copper may cause skin and hair discoloration. Silver may cause a grayish pigmentation of the skin, and cause irritation of the skin and mucous membranes.

Bismuth is not considered a toxic or dangerous material, however, it is always good practice to maintain good housekeeping procedures and wash thoroughly.

ELEMENT	CAS	%WT	Carcinogen	TLV/TWA	OSHA PEL ACGIH/ OSHA
*Tin	7440-31-5	96-98	No	2.0 mg/cu m	2.0 mg/cu m
*Antimony	7440-36-0	0-2	No	0.5 mg/cu m	0.5 mg/cu m
*Copper	7440-50-8	0-2	No	0.2 mg/cu m	0.01 mg/cu m (fume)
*Bismuth	7440-69-9	0-2	No	NE	NE

### **SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**

### **SECTION 4. FIRST-AID MEASURES**

**Eye Contact**: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

**Skin Contact**: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Inhalation**: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Ingestion**: Do not induce vomiting. Loosen tight clothing. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Use special mixtures of dry chemicals. Do not use water or moist sand. Fire fighters should wear self-contained breathing apparatus and protective clothing.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

No special precautions are necessary for spills of bulk material. If large quantities of dust are spilled, remove by vacuuming with a "Hepa" filter or wet sweeping to prevent heavy concentrations of airborne dust. Clean-up personal should wear respirators and protective clothing.

<sup>\*</sup>Product contains one or more of these metallic elements in varying percentages by weight.

### **SECTION 7. HANDLING AND STORAGE**

Store material away from incompatible materials, and keep dust away from sources of ignition.

## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Use general and local exhaust ventilation to keep airborne concentrations of dust or fume below the TLV. Employees should wear OSAH or NIOSH approved respirators for protection against airborne dust or fumes. Full protective clothing should be worn by workers exposed to heavy concentrations of dust, and showering should be required before changing into street clothes. Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis. Approved safety glasses or goggles should be worn when working with dusty material and molten metal. Safety stations should be provided in close proximity to work areas.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point 450° F
Boiling Point 4118° F
Vapor Pressure Not Volatile
Vapor Density (air is 1) Not Volatile

Solubility in Water NIL

Appearance & Color Silver to gray metal

Specific Gravity g/cc
Odor
None
Volatile
PH
N/A
Evaporation
7.2624
None
NII
N/A

# **SECTION 10. STABILITY AND REACTIVITY**

Massive material is stable at ordinary temperatures, but dust presents moderate fire and explosion hazards. Material may be incompatible with acids, bases, and oxidizers. Molten metal may react violently with water. For additional information, users should consult data sheets on individual component elements.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Inhalation – May be harmful if inhaled. Causes respiratory tract irritation. Indestion – May be harmful if swallowed

Skin – May be harmful if absorbed through skin. Causes skin irritation.

Eyes – Causes eye irritation

# **SECTION 12. ECOLOGICAL INFORMATION**

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Metal can be claimed for refuse. Follow Federal, State, and local regulations regarding disposal

## **SECTION 14. TRANSPORT INFORMATION**

No data available

# **SECTION 15. REGULATORY INFORMATION**

Bases on NFPA and NPCA systems
HEALTH – 2
FLAMMABILITY – 0
REACTIVITY – 0
SPECIAL HAZARD –

## **SECTION 16. OTHER INFORMATION**

This fact sheet was prepared by Hallmark Metals Corporation. The information recommendations and suggestions were compiled from reference materials and other sources believed to be reliable. However, the fact sheets' accuracy or completeness is not guaranteed by Hallmark Metals Corporation, nor is any responsibility assumed or implied for any loss or damage resulting from inaccuracies or omissions. Appropriate warnings and safe handling procedures should be provided to handlers and users. No warranty is implied or expressed regarding the accuracy of this data. Liability is expressly disclaimed for loss or injury arising out of use of this information or the use of any materials designated.

Date prepared:

Date revised: August 6, 2015

THIS MSDS IS NOT COMPLETE UNLESS ALL PAGES ARE ATTACHED

End