

# Safety Data Sheet



## 1: Identification

### 1.1: Product Identifier

Product Name: Sn

Product Number(s): 1SN-0033F

CAS Number: 7440-31-5

SDS Document Number: 000272

### 1.2: Recommended Uses and Restrictions

Recommended Uses

Manufacture of substances

Restrictions

Not for food or drug use.

### 1.3: Supplier Contact Information

APL Engineered Materials, Inc.

2401 N. Willow Rd.

Urbana, IL 61802

Phone: 217-367-1340

Fax: 217-367-9084

### 1.4: Emergency Phone Number

United States: 800-255-3924

International: +01-813-248-0585

## 2: Hazards Identification

### 2.1: Classifications

Not a hazardous substance or mixture - .

### 2.2: GHS Label Elements

Pictograms

Signal Word:

Hazard Statements

Not a hazardous substance.

Precautionary Statements

Not a hazardous substance.

### 2.3: Hazards Not Otherwise Classified or Not Covered by GHS

None.

2.4: Amount(s) of substances with unknown toxicity

None

### 3: Composition/Information on Ingredients

3.1: .Ingredient	.Weight%	.Formula	.CAS Number	.Mol Wt	.EC Number
Sn	100	Sn	7440-31-5	118.69	231-141-8

3.2: Other Hazardous components

none

3.3: Trade Secret Disclaimer

none

3.4: Synonyms

Tin

### 4: First Aid Measures

4.1: First Aid

General

Consult with physician and provide this Safety Data Sheet

Remove person from area of exposure and remove any contaminated clothing

In contact with eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Seek medical attention if irritation develops or persists

In contact with skin

Wash thoroughly with soap and plenty of water. Remove all contaminated clothing for proper laundering. Seek medical attention if irritation develops or persists.

If swallowed

If conscious and alert, rinse mouth and drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical aid.

If inhaled

Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid.

If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

4.2: Most important symptoms and effects; acute and delayed

No data available.

4.3: Indication of any immediate medical attention and special treatment needed

no data available

### 5: Fire Fighting Measures

5.1: Fire extinguishing media

water or alcohol-resistant foam

carbon dioxide

dry chemical

5.2: Specific hazards arising from the substance or mixture  
tin oxides

5.3: Special protective equipment and precautions for firefighters.  
Wear self contained breathing apparatus for fire fighting if necessary

## 6: Accidental Release Measures

6.1: Personal precautions, protective equipment, and emergency procedures.

For personal protection see section 8.

Ensure adequate ventilation.

Avoid dust formation.

Use personal protective equipment.

Evacuate personnel to safe areas.

Avoid breathing dust.

6.2: Methods and materials for containment and cleaning up.

Keep in suitable, closed containers for disposal.

Sweep up and shovel.

6.3: Environmental precautions

Do not let product enter drains.

6.4: Disposal

Dispose of in accordance with local regulations.

See section 13.

## 7: Handling and Storage

7.1: Precautions for safe handling

Avoid contact with skin and eyes.

See precautionary statements in section 2.2.

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

7.2: Conditions for safe storage

Keep container tightly closed.

Store away from moisture.

Store in a dry and well-ventilated place.

Store under inert gas.

7.3: Incompatibilities

sulphur compounds

halogens

strong bases

strong oxidizing agents

## 8: Exposure Controls/Personal Protection

### 8.1: Control parameters

OSHA permissible exposure limit (PEL)

2.0 mg/m<sup>3</sup>

ACGIH threshold limit value (TLV)

2.0 mg/m<sup>3</sup>

NIOSH recommended exposure limit (REL)

2.0 mg/m<sup>3</sup>

### 8.2: Engineering controls

Use adequate ventilation to keep airborne concentrations low

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower

### 8.3: Personal protective equipment

Eyes

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin

Wear appropriate, chemical-resistant protective gloves to prevent skin exposure.

Clothing

Wear appropriate protective clothing to prevent skin exposure

Respirator

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149.  
Always use a NIOSH or European Standard EN 149 approved respirator when necessary

## 9: Physical and Chemical Properties

### 9.a: Appearance

State: Solid

Form: Pieces

Color: grey

9.b: Odor: no data available

9.c: Odor threshold: no data available

9.d: pH: no data available

9.e: Melting point / freezing point: 231.9°C (449.4°F)

9.f: Initial boiling point and range: 2270°C (4118°F)

9.g: Flashpoint: no data available

9.h: Evaporation rate: no data available

9.i: Flammability (solid, gas): no data available

9.j: Upper/lower flammability or explosive limits: no data available

9.k: Vapor pressure: no data available

9.l: Vapor density: no data available

9.m: Relative density: 7.31 g/cm<sup>3</sup> at 25°C(77°F)

- 9.n: Water Solubility: no data available  
9.o: Partition coefficient: n-octanol/water: no data available  
9.p: Auto-ignition temperature: no data available  
9.q: Decomposition temperature: no data available  
9.r: Viscosity: no data available

## 10: Stability and Reactivity

- 10.1: Reactivity  
no data available
- 10.2: Chemical stability  
Stable under recommended storage conditions.
- 10.3: Possibility of hazardous reactions  
no data available
- 10.4: Conditions to avoid  
no data available
- 10.5: Incompatible materials  
See section 7.3.
- 10.6: Hazardous decomposition products  
In the event of fire: see section 5.2  
Other decomposition products - no data available

## 11: Toxicological Information

- 11.1: Toxicity data
- Acute toxicity - Oral  
no data available
  - Acute toxicity - Dermal  
no data available
  - Acute toxicity - Inhalation  
No data available.
  - Skin corrosion/irritation  
no data available
  - Eye damage/irritation  
No data available.
  - Respiratory irritation  
No data available.
  - Germ cell mutagenicity  
no data available
  - Reproductive toxicity  
no data available
  - Specific organ toxicity - single exposure

No data available.  
Specific organ toxicity - repeated exposure  
No data available.

Aspiration hazard  
No data available.

Additional information  
RTECS: XP7320000

ACGIH carcinogenicity  
The ACGIH has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

IARC carcinogenicity  
The IARC has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

NTP carcinogenicity  
The NTP has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

OSHA carcinogenicity  
OSHA has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

11.2: Routes of exposure  
skin

11.3: Symptoms of exposure  
See section 4.2

11.4: Delayed and immediate effects of exposure  
To the best of our knowledge the toxicological properties have not been thoroughly investigated.

## **12: Ecological Information**

12.1: Ecotoxicity  
Toxicity to fish  
No data available  
Toxicity to daphnia and other aquatic invertebrates  
No data available  
Toxicity to algae/bacteria  
No data available

12.2: Persistence and degradability  
no data available

12.3: Bioaccumulative potential  
no data available

12.4: Mobility in soil  
no data available

12.5: Other effects  
no data available

## 13: Disposal Considerations

### 13.1: Waste treatment methods

No data available

### 13.2: Safe handling

See section 7.1 .

### 13.3: Product disposal

Contact a licensed professional waste disposal service to dispose of this material.

### 13.4: Packaging disposal

Dispose of as unused product.

## 14: Transport Information

### 14.1: DOT(US)

UN Number: Not a dangerous good

Proper Shipping Name:

Packing Group:

Shipping Class(es): 0

Marine Pollutant: No

### 14.2: IMDG

UN Number: Not a dangerous good

Proper Shipping Name:

Packing Group:

Shipping Class(es): 0

Marine Pollutant: No

### 14.3: IATA

UN Number: Not a dangerous good

Proper Shipping Name:

Packing Group:

Shipping Class(es): 0

### 14.4: Special Shipping Precautions

None

## 15: Regulatory Information

### 15.1: TSCA inventory

This material is listed on the TSCA inventory.

### 15.2: SARA 302 components

This material is not subject to the reporting requirements of SARA Title III, Section 302.

### 15.3: SARA 313 components

This material is not subject to the reporting requirements of SARA Title III, Section 313.

### 15.4: SARA 313/312 hazards

No SARA hazards.

#### 15.5: Other information

California Prop. 65 Components - This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

New Jersey Right To Know Components -This product contains materials listed on the New Jersey Right to Know list

Massachusetts Right To Know Components - This product does not contain materials listed on the Massachusetts Right to Know list

Pennsylvania Right To Know Components -This product contains materials listed on the Pennsylvania Right to Know list

### 16: Additional Information

#### 16.1: NFPA

Health: 0

Fire: 0

Reactivity: 0

Special:

#### 16.2: HMIS

Health: 0

Chronic:

Flammability: 0

Physical Hazard: 0

#### 16.3: Disclaimers

The information herein is believed to be accurate and reliable as of the date compiled. However, APL Engineered Materials, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.

For industrial use only. Not for drug, household or other uses

#### 16.4: References

Information contained on this SDS sheet was obtained from some or all of the following sources: American Conference of Governmental Industrial Hygienists (ACGIH), TLVs and BEIs; National Institute for Occupational Safety and Health (NIOSH), Pocket Guide to Chemical Hazards; European Chemicals Agency, <http://echa.europa.eu/>; The National Institute of Health, U.S National Library of Medicine, TOXNET, Toxicology Data Network; and the Registry of Toxic Effects of Chemical Substances (RTECS) database.

#### 16.5: Version

Preparation Date: 5/22/2015

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