



Safety Data Sheet

Viper Plumbing Solder

SECTION 1: PRODUCT DESCRIPTION

PRODUCT IDENTIFIER

Product form: Solid
Product Name: Tin/Copper Alloy
Formula: Sn/Cu

SUPPLIER

NATHAN TROTTER & COMPANY
241 W. STEWART HUSTON DRIVE
COATESVILLE, PA 19320
PH. 610-524-1440
FX. 610-524-2496

INTENDED USE OF PRODUCT

Use: Industrial; professional use only

EMERGENCY TELEPHONE NUMBER

CHEMTREC 24 HR Emergency number: 1-800-424-9300
INTERNATIONAL CHEMTREC call: 1-703-527-3887

SECTION 2: HAZARD IDENTIFICATION

GHS CLASSIFICATION: NOT CLASSIFIED AS HAZARDOUS

Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards

Signal Word:

N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE			
Name	Product Identifier	%	Classification (GHS-US)
Tin, Metal	7440-31-5	0-100	N/A
Copper, Metal	7440-50-8	0-100	N/A

MIXTURE: Precautionary Statements: Not Applicable

SECTION 4: FIRST AID MEASURES

General First-aid Measures: Under normal handling and use, exposure to solid forms of this material present few health hazards. Subsequent operations such as grinding, melting or welding may produce hazardous dust or fumes which can be inhaled or come in contact with the skin or eyes.

INHALATION: Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult. Seek medical attention if symptoms persist.

INGESTION: Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms persist. Never induce vomiting or give anything by mouth to an unconscious person.

SKIN: After contact with skin, wash immediately with plenty of water. **Molten Metal:** Flush contact area to solidify and cool but do not attempt to remove encrusted material or clothing. Cover burns and seek medical attention immediately.

EYES: Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek medical attention.

SECTION 5: FIRE FIGHTING PROCEDURES

Extinguishing Media: Use suitable extinguishing agent for surrounding materials and type of fire.

Unsuitable Extinguishing Media: No information available.

Specific Hazards Arising from the Material: This product does not present fire or explosion hazards as shipped. Fine dust from processing is a weak to moderate fire hazard if allowed to accumulate and subjected to an ignition source. When heated, fumes of bismuth oxide may be released.

Special Protective Equipment and Precautions for Firefighters: Full face, self-contained breathing apparatus and full protective clothing when necessary.

SECTION 6: SPILL OR LEAK MEASURES/PROCEDURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate respiratory and protective equipment specified in section 8. Avoid creating dusts. Avoid breathing dust or fume. Isolate spill area and provide ventilation.

Methods and Materials for Containment and Cleaning Up: For larger pieces - pick up mechanically. For chips or dust - vacuum using a HEPA filter. Place in properly labeled closed containers. Avoid creating dusts. Do not use compressed air.

Environmental Precautions: Do not allow to enter drains or to be released to the environment.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Handle in a well-ventilated area. Avoid creating dust. Avoid exposure to high temperature. Avoid breathing dust or fumes. Avoid contact with skin and eyes. Wash thoroughly before eating or smoking. See section 8 for information on personal protection equipment.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a sealed container. Store in a cool, dry area. Do not store together with oxidizers, acids or halogens. See section 10 for more information on incompatible materials.

SECTION 8: PROTECTION INFORMATION

CHEMICAL NAME: Tin/Copper

Tin	<u>ACGIH</u> <u>TWA</u> N/A	<u>STEL</u> N/A	<u>OSHA PEL</u> <u>TWA</u> N/A	<u>STEL</u> N/A
Copper	<u>ACGIH</u> <u>TWA</u> 0.2 MG/M3	<u>STEL</u> N/A	<u>OSHA PEL</u> <u>TWA</u> 0.1 Mg/m3	<u>STEL</u> N/A

CONTROL PARAMETERS/ ENGINEERING MEASURES: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Heat resistant gloves, eye wash, safety shower.

RESPIRATORY PROTECTION: When potential exposures are above the occupational limits, approved respirators must be used.

EYE PROTECTION: Wear Safety glasses when handling this product. Have an eye wash station available.

SKIN PROTECTION: Avoid skin contact by wearing heat resistant gloves and other protective equipment depending upon conditions of use. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

GLOVES: Heat resistant gloves.

SECTION 9: PHYSICAL DATA

FORMULA: Sn

MOLECULAR WEIGHT: 118.69

APPEARANCE: Grey Metallic Solid

ODOR: None

PHYSICAL STATE: Solid

pH: No data available

MELTING POINT: 450° F (232°C)

BOILING POINT: 4717° F (2603°C)

FREEZING POINT: No data available

FLAMMABILITY: No data Available

FLASH POINT: No data available

AUTO IGNITION TEMPERATURE: No data available

DECOMPOSITION TEMPERATURE: No data available

VAPOR PRESSURE : 1.3332 hPa at 1492°C

SPECIFIC GRAVITY: 7.28 (Water = 1)

RELATIVE VAPOR DENSITY AT 20°C: No data available

FORMULA: Cu

MOLECULAR WEIGHT: 63.55

APPEARANCE: Metallic Red– Orange

ODOR: No data available

PHYSICAL STATE: Solid

pH: No data available

MELTING POINT: 1083°C

BOILING POINT: 2595°C

FREEZING POINT: No data available

FLAMMABILITY: No data Available

FLASH POINT: No data available

AUTO IGNITION TEMPERATURE: No data available

DECOMPOSITION TEMPERATURE: No data available

VAPOR PRESSURE: 0 hPa at 1400°C

SPECIFIC GRAVITY: 8.94 (Water = 1)

RELATIVE VAPOR DENSITY AT 20°C

SECTION 10: REACTIVITY DATA

REACTIVITY: No data.

CHEMICAL STABILITY: Stable under recommended handling and storage conditions. (see section 7)

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: Avoid creating or accumulating fines or dusts. Avoid high temperatures.

INCOMPATIBLE MATERIALS: Strong acids, strong oxidizers, halogens and inter-halogen compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 11: TOXICITY DATA

ROUTES OF ENTRY: Inhalation and ingestion.

SYMPTOMS (ACUTE): Reproductive systems

DELAYED EFFECTS: No data available

ACUTE TOXICITY:

CHEMICAL NAME:	<u>CAS NUMBER</u>	<u>ORAL LD50</u>	<u>DERMAL LD50</u>	<u>INHALATION LC50</u>
Copper, Metal	7440-50-8	>5000 mg/kg	N/A	N/A
Tin, Metal	7440-31-5	N/A	N/A	N/A

CARCINOGENICITY:

CHEMICAL NAME:	<u>CAS NUMBER</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Copper, Metal	7440-50-8	N/A	N/A	N/A
Tin, Metal	7440-31-5	N/A	N/A	N/A

CHRONIC EFFECTS:

MUTAGENICITY: No evidence of a mutagenic effect.
TERATOGENICITY: No evidence of a teratogenic effect (Birth defect)
SENSITIZATION: No evidence of a sensitization effect.
REPRODUCTIVE: No evidence of negative reproductive effects.

TARGET ORGAN EFFECTS:

ACUTE: N/A
CHRONIC: N/A

SECTION 12: ECOLOGICAL DATA

OVERVIEW: No data available. Do not allow material to be released into the environment.

MOBILITY: N/A

PERSISTANCE: N/A

CHEMICAL NAME:	<u>CAS NUMBER</u>	<u>ECO TOXICITY</u>
TIN, METAL	7440-31-5	N/A

BIOACCUMULATION: N/A

DEGRADABILITY: N/A

CHEMICAL NAME:	<u>CAS NUMBER</u>	<u>ECO TOXICITY</u>
COPPER, METAL	7440-50-8	N/A

OTHER ADVERSE EFFECTS: N/A

SECTION 13: DISPOSAL INFORMATION

DISPOSAL METHODS: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance

WASTE DISPOSAL CODE(S): Not determined

SECTION 14: TRANSPORT INFORMATION

GROUND– DOT PROPER SHIPPING NAME:

Not regulated for ground transport by IATA

AIR– IATA PROPER SHIPPING NAME:

Not regulated for air transport by IATA.

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: All components in this product are on the TSCA Inventory.

CHEMICAL NAME:	CAS NUMBER	§ 313 NAME	§ 313 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Tin, Metal	7440-31-5	Tin	No	No	No	No

CHEMICAL NAME:	CAS NUMBER	§ 313 NAME	§ 313 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Copper, Metal	7440-50-8	Copper	No	No	No	No

SECTION 16: ADDITIONAL INFORMATION

REVISED: MAY 2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Nathan Trotter & Co. Inc. makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

GLOSSARY:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service Number

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: U.S. Department of Transportation

IARC: International Agency for Research on Cancer

N/A: Not Available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

PPM: Parts per million

RCRA: Resource Conservation and Recovery Act

SARA: Superfund Amendments and Reauthorization Act

TLV: Threshold Limit Value

TSCA: Toxic Substances Control Act

IDLH: Immediately dangerous to life and health