

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29CFR 1910.1200

Rev. 12/23/06

LEAD-FREE ALLOY, CLEAN-CORE

Clean-core

SRA

56 LEONARD ST., #2
FOXBORO, MA 02035

Phone Number 508-543-4111
Infotrac Emergency No. 1-800-535-5053

1. Product Ingredients

Chemical Name	CAS No.	Weight %	Permissible Air Concen.(mg/cu.m)		SARA Title III Sect. 313 Chem
			OSHA	ACGIH	
TIN	7440-31-5	>95%	2.0	2.0	NO
SILVER	7440-22-4	<4%	.1	.1	YES
DIBASIC ACIDS	N/A	1-3	N/A	N/A	NO

2. Physical Data

Material is SOLID Appearance and Odor SILVER-WHITE METAL, CORE HAS SLIGHT ODOR.

Melting Point APPROX. 430°F Boiling Point <4000°F Specific Gravity APPROX. 7.1 Vapor Density N/A
Core 125C N/A N/A N/A

CORE=MIXED DIBASIC ACID*

*FLUX MAY DECOMPOSE UPON HEATING TO LIBERATE ABOUT 5% TURPENTINE.
SOME FLUX IS CARRIED UP IN SMOKE

Solubility in Water INSOLUBLE Vapor Pressure N/A Evaporation Rate N/A PH N/A

3. Fire And Explosion Data

Flash Point N/A Flammable Limits N/A Auto Ignition Temp. N/A
CORE 300 F N/A N/A

Unusual fire and explosion hazards

IN EXTREMELY HIGH TEMPERATURE FIRE OR IN CONTACT WITH CERTAIN ACIDS, MAY EMIT TOXIC FUMES. USE SELF-CONTAINED RESPIRATORY SYSTEM.

Fire extinguishing agents recommended

USE CO2 OR DRY CHEMICAL ON SURROUNDING FIRE

Fire extinguishing agents to avoid

DO NOT USE WATER ON FIRE WHERE MOLTEN METAL IS PRESENT

Special fire fighting precautions

USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL BODY PROTECTIVE CLOTHING

NFPA RATING 1 0 HEALTH 1, FLAMMABILITY 1,
1 0 REACTIVITY 0, SPECIAL 0
0

4. Health Hazard Information

Primary Routes of Entry

INGESTION X INHALATION ABSORPTION

Carcinogenicity

THIS PRODUCT HAS NOT BEEN LISTED AS A SUSPECT CARCINOGEN BY NTP, IARC OR OSHA. THIS PRODUCT CONTAINS LESS THAN .02% LEAD.

Acute Overexposure (symptoms and effects)

SEVERE SHORT-TERM OVEREXPOSURE MAY LEAD TO CENTRAL NERVOUS SYSTEM DISORDERS, CHARACTERIZED BY FEVER, BODYACHE AND CHILLS. IT SHOULD BE RECOGNIZED THAT EXPOSURE OF THIS MAGNITUDE IN AN INDUSTRIAL ENVIRONMENT IS EXTREMELY UNLIKELY.

Chronic Overexposure (symptoms and effects)

PROLONGED EXPOSURE TO FUMES OF MOLTEN METAL OR FLUX USED DURING SOLDERING OPERATION MAY CAUSE IRRITATION OF THE REPIRATORY TRACT. ROSIN IS A POTENTIAL ALLERGENIC-CAN CAUSE A RASH OR OTHER ALLERGIC REACTION TO A ROSIN SENSITIVE PERSON. CHRONIC OVEREXPOSURE TO THE FUMES FROM THE FLUX MAY CAUSE IRRITATION TO THE PULMONARY SYSTEM AND LUNG DISEASE.

Medical Conditions possibly aggravated by exposure

THE SYMPTOMS OFIMPAIRED PULMONARY FUNCTIONS OR ILLNESS MAY BE WORSENERD BY FUME IRRITANTS.

First Aid Procedures

INHALATION: REMOVE FROM EXPOSURE AND CALL A PHYSICIAN

SKIN CONTACT:WASH AFFECTED AREAS WITH SOAP AND WATER. IF BURNS SHOULD OCCUR FROM MOLTEN METAL, TREAT FOR BURN AND GET IMMEDIATE MEDICAL ASSISTANCE.

EYE CONTACT: FLUSH EYES WITH WATER FOR 15 MINUTES, CALL A PHYSICIAN.

INGESTION: INGEST LARGE QUANTITIES OF WATER, CALL A PHYSICIAN.

5. Precautions/Procedures

OVERHEATING OF ALLOY CAN PRODUCE METAL FUMES AND OXIDES. MACHINING OPERATIONS SUCH AS GRINDING, SAWING OR BUFFING CAN GENERATE AIRBORN PARTICULATES IN THE WORK AREA. EXPOSURE LEVELS INDICATED IN SECTION 1 ARE RELAVENT TO THESE AND OTHER OPERATIONS.

Normal Handling

USE OF APPROVED RESPIRATORS IS REQUIRED FOR APPLICATIONS WHERE ADEQUATE VENTILATION CANNOT BE PROVIDED. ACTIVITIES WHICH GENERATE EXCESSIVE DUST OR FUMES SHOULD BE AVOIDED.

Spill or Leak

ANY METHOD THAT KEEPS DUST TO A MINIMUM IS ACCEPTABLE. VACUUMING IS PREFERRED. USE OF APPROVED RESPIRATORY PROTECTION WHERE POSSIBILITY OF DUST/FUME EXPOSURE EXISTS. DO NOT USE COMPRESSED AIR FOR CLEANING.

Personal Hygiene

AVOID INHALATION OR INGESTION. PRACTICE GOOD HOUSEKEEPING AND PERSONAL HYGIENE PROCEDURES.

Engineering Controls

LOCAL EXHAUST VENTILATION IS RECOMMENDED FOR DUST AND/OR FUME GENERATION OPERATIONS WHERE AIRBORNE EXPOSURES MAY EXCEED PERMISSIBLE AIR CONCENTRATIONS.

Storage

GENERAL STORAGE PROCEDURES ACCEPTABLE.

Special Precautions, Procedures, Label Instruction

SPECIAL ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE OSHA RESPIRATOR STANDARD (1910-134) SHOULD AIRBORNE EXPOSURES EXCEED THE OSHA LEVEL OR PEL.

6. Personal Protective Equipment

Respiratory Protection:

USE NIOSH/MSHA APPROVED RESPIRATORS OR AIR SUPPLIED RESPIRATOR WHEN SOLDERING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Eyes and Face

SAFETY GLASSES RECOMMENDED WHERE THE POSSIBILITY OF GETTING DUST PARTICLES IN EYES EXISTS OR WHEN HANDLING MOLTEN METAL.

Other Clothing and Equipment

GLOVES AND OTHER PROTECTIVE CLOTHING RECOMMENDED TO PROTECT SKIN FROM CONTACT WITH MOLTEN METAL.

7. Reactivity Data

Stability: STABLE

Conditions to Avoid: NOT APPLICABLE

Incompatibility: AVOID STRONG ACIDS, SULFUR AND CHLORINE

Hazardous Decomposition Products: REACTION WITH STRONG ACIDS CAN PRODUCE TOXIC ORGANIC OR INORGANIC TIN COMPOUNDS.

8. Environmental

Regulated by DOT? NO

Waste Disposal Method

TIN AS A PURE METAL AND TIN/COPPER/SILVER/ANTIMONY ALLOYS PRESENT NO PROBLEM FOR DISPOSAL AND ARE, IN FACT, RECOVERED DUE TO THEIR ECONOMIC VALUE.

9. Additional Information

Precautions to be taken in handling and storing: NONE

Other Precautions: NONE

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