MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29CFR 1910.1200

Rev. 11/03/06

LEAD-FREE ALLOY, CLEAN-CORE

SAC 305
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) OSHA	ACGIH	SARA Title III Sect. 313 Chem
TIN	7440-31-5	>95%	2.0	2.0	NO
COPPER	7440-50-8	<1%	.1	.1	NO
SILVER	7440-22-4	<4%	.1	.1	NO
DIBASIC ACIDS	N/A	1-3	N/A	N/A	NO

2. Physical Data

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

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

CORE=MIXED DIBASIC ACID*

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

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

3. Fire And Explosion Data

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

Unusual fire and explosion hazards
IN EXTREMELY HIGH TERMPERATURE 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 1 0 0 HEALTH 1, FLAMMABILITY 1, REACTIVITY 0, SPECIAL 0

4. Health Hazard Information

Primary Routes of Entry
INGESTION X INHALATION ABSORPTION

Carcinogenecity
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 WORSENED 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 POSSIBLITY 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 ASHA 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 POSSIBLITY 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