

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME : TIN LEAD SOLDER

Material Identity

Product name : TIN LEAD SOLDER

Molecular formula: Sn-Pb

Cas no : 7439921

Physical/Chemical Characteristics

Appearance/Odor	METALLIC COLOR, SOLID-GREY TO SHINY SILVERY GREY
Boiling Point	1700F,927C
Melting Point	N/K
Vapor Pressure	NONE
Vapor Density	NOT GIVEN
Specific Gravity	11.3
Decomposition Temperature	UNKNOWN
Evaporation Rate	NOT GIVEN
Solubility in Water	INSOUBLE
Chemical pH	N/K

Fire and Explosion Hazard Data

Lower Explosion Limit	NOT GIVEN
Upper Explosion Limit	NOT GIVEN
Extinguishing Media	NOT FLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE
Special Fire Fighting Procedures	IN EXTREMELY HIGH TEMPERATURE FIRES,

Unusual Fire/Explosion Hazards LEAD MAY EMIT TOXIC FUMES. USE A SELF-CONTAINED RESPIRATORY SYSTEM
MODERATE HAZARD WHEN HIGH CONCENTRATION OF VERY FINE METALLIC DUST IS EXPOSED TO HIGH HEAT OR OPEN FLAMES

Reactivity Data

Stability	YES
Stability Conditions to Avoid	HIGH TEMPERATURES
Materials to Avoid	ACIDS, BASES, OXIDIZERS. MOLTEN METAL MAY REACT WITH WATER
Hazardous Decomposition Products	TEMPERATURE ABOVE THE MELTING POINT MAY EMIT TOXIC FUMES
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	NONE. WILL NOT OCCUR
LD50 - LD50 Mixture	NOT PROVIDED BY MANUFACTURER
Health Hazard Data	
	NO
Route of Entry: Skin	
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	LEAD POISONING AFTER LONG-TERM EXTREME EXPOSURE FROM INGESTION AND/OR INHALATION OF COMPOUNDS OR FUMES. MAY CAUSE RESPIRATORY IRRITATION, EYE IRRITATION, SKIN IRRITATION
Explanation of Carcinogenicity	DATA PER MSDS. LEAD IS LISTED BY NTP AND IARC AS A CARCINOGEN
Symptoms of Overexposure	SHORT TERM EXPOSURE TO WELDING FUMES, GASES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. LEAD POISONING MAY RESULT IN METALLIC TASTE, ABDOMINAL PAIN, NAUSEA, JOINT PAIN, WEAKNESS, MENTAL CONFUSION, LINES ON GUMS

Medical Cond. Aggravated by Exposure	SOME WORKERS MAY BE AFFECTED BY A PRE- EXISTING CONDITION OR OTHER OCCUPATIONAL ILLNESS BECAUSE OF THE WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES
Emergency/First Aid Procedures	IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. REMOVE FROM EXPOSURE AREA AND CALL FOR MEDICAL AID. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. IF NO DETECTABLE PULSE, BEGIN EXTERNAL HEART MASSAGE. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS

Precautions for Safe Handling and Use

Steps if Material Released/Spilled	CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSURE
Neutralizing Agent	NOT APPLICABLE
Waste Disposal Method	SCRAP DRIPPINGS AND DROSSES SHOULD BE STORED IN A CLOSED CONTAINER AND RETURNED TO A LEAD RECYCLER. FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS REGARDING DISPOSAL
Handling and Storage Precautions	R GLOVES AND FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING. PR
Other Precautions	PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS. WHEN ELECTRODES AND FLUXES ARE CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS LISTED. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM

Control Measures

Respiratory Protection	USE WELD FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRATORS
Ventilation	USE ENOUGH VENTILATION WHEN CUTTING, GRINDING OR WELDING TO KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE
Protective Gloves	WELDERS LEATHER GLOVES
Eye Protection	OSHA APPROVED GOGGLES/FACE SHIELD W/LENS
Other Protective Equipment	FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING
Work Hygenic Practices	WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE
Supplemental Health/Safety Data	WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THE PRESENCE OF CONTAMINENTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES