

GARDINER SOLDER CO. -- TIN,LEAD,ANTIMONY SOLDER,X-45,CODE 185 -- 3439-00-702-4067  
===== Product Identification =====

Product ID:TIN,LEAD,ANTIMONY SOLDER,X-45,CODE 185

MSDS Date:02/13/1987

FSC:3439

NIIN:00-702-4067

MSDS Number: BLXHB

=== Responsible Party ===

Company Name:GARDINER SOLDER CO.

Address:4820 SO. CAMPBELL AVE

City:CHICAGO

State:IL

ZIP:60632

Info Phone Num:312-847-0100

Emergency Phone Nu

m:312-847-0100

CAGE:56244

=== Contractor Identification ===

Company Name:GARDINER SOLDER CO, DIV OF GARDINER METAL CO

Address:4820 S CAMPBELL AVE

Box:City:CHICAGO

State:IL

ZIP:60632-1416

Country:US

Phone:312-847-0100/800-424-9300(CHEMTREC)

CAGE:56244

===== Composition/Information on Ingredients =====

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 63.5%

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 8990

Ingred Name:ANTIMONY (METAL)

CAS:7440-36-0

RTECS #:CC4025000

Fract

ion by Wt: 0.5%  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG/M3; 8990  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:LEAD  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: 35.53%  
Other REC Limits:0.05MG/FT\*3  
OSHA PEL:0.05 MG/M3;1910.1025  
ACGIH TLV:0.15 MG/M3; 8990  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ROSIN  
CAS:8050-09-7

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===== Hazards Identification =====  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Health Hazards Acute and  
Chronic:EYES:IR  
RITATION,BURNS;SKIN:BURNS;INHALATION; IRRITATION OF  
MUCOUS MEMBRANES,SWEETISH METALLIC TASTE,BURNING IN MOUTH;  
INGESTION:N/R. CHRONIC HAZARD:ANOREXIA "LEAD LINE" ON GUM  
MARGIN,NAUSEA, SEVERE AB DOMINAL PAIN,VISUAL DISTURBANCE,PARALYSIS.  
Effects of Overexposure:SEE HEALTH HAZARDS.  
Medical Cond Aggravated by Exposure:PULMONARY INSUFFICIENCIES &  
PRE-EXISTING EYE DISORDERS.

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===== First Aid Measures =====  
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First Aid:EYES:WASH WITH LARGE AMOUNTS OF  
WATER & APPLY SOOTHING  
SOLUTION;SKIN:APPLY BURN OINTMENT;INHALATION:REMOVE TO FRESH AIR.  
IF DISCOMFORT PERSISTS,SEE DOCTOR.

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===== Fire Fighting Measures =====  
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Extinguishing Media:ANY MEDIA APPROPRIATE FOR SURROUNDING FIRE.AVOID  
USING WATER ON MOLTEN ALLOY.IT GENERATES MUCH STEAM WITH METAL  
SPLASHNG  
Fire Fighting Procedures:IN HIGH TEMPERATURE FIRE,>1832F(>1000C),WEAR  
SCBA FOR PROTECTION AGAINST LEAD FUMES.  
Unusual Fire/Explosion Hazard:WE

LDING ARCS & SPARKS CAN IGNITE  
COMBUSTIBLE PRODUCTS.

===== Accidental Release Measures =====

Spill Release Procedures:FINE DUST SHOULD BE VACUUMED.

===== Handling and Storage =====

Other Precautions:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES.  
MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES.AVOID ELECTRICAL SHOCK  
BY MAINTAINING DRY WORK AREA.

===== Exposure Controls/Personal Protection =====

Respirator

y Protection:NIOSH/MSHA APPROVED FUME RESPIRATOR OR AIR  
SUPPLIED RESPIRATOR IN CONFINED SPACES OR WHERE VENTILATION DOES  
NOT KEEP EXPOSURE BELOW TLV.

Ventilation:LOCAL EXHAUST TO MAINTAIN BELOW TLV.

Protective Gloves:FINE DISPOSABLE GLOVES DURING SOLDERING.

Eye Protection:SAFETY GLASSES/GOGGLES DURING SOLDERING.

Other Protective Equipment:CLOTHING APPROPRIATE FOR SOLDERING-EYE BATH  
STATION NEAR SOLDERING.

Work Hygienic Practices:IF HANDLED WITH BARE HANDS,WASH THOROUGHLY  
AFTER HA

NDLING.

Supplemental Safety and Health

SPECIFIC GRAVITY,FLUX:1.0;ALLOY:8.55-MELTING

POINT,FLUX:180F(82C);ALLOY:361F(182C)-SCREEN EMPLOYEES FOR  
PRE-EXISTING SKIN DISORDERS,PULMONARY INSUFFICIENCIES,LIVER &  
KIDNEY FUNCTIONS.DO NOT ALLOW PREG NANT WOMEN IN SOLDERING AREA.

===== Physical/Chemical Properties =====

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:SEE SUPPL

Spec Gravity:SEE SUPPL DATA

Solubility in Water:INSOLUBLE

Appearance and Odor:FLUX:AMBER SOLID,NO ODOR

.ALLOY:SILVER GREY SOLID.NO

ODOR

Percent Volatiles by Volume:NONE

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS.

Hazardous Decomposition Products:FUMES & PARTICULATES OF METALS & METAL  
OXIDES,CO,CO\*2,OXIDES OF NITROGEN,VARIOUS HYDROCARBONS,O\*3.

===== Disposal Considerations =====

Waste Disposal Methods:RECYCLING. DISPOSE OF RESIDUE FROM WORK AREA OR  
FILTERS IAW FEDERAL,  
STATE & LOCAL REGULATIONS.

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