

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

===== Hazards Identification =====

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.

===== First Aid Measures =====

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

===== Fire Fighting Measures =====

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 FEDER  
L,STATE & LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this informatio  
n to their  
particular situation.