

GARDINER SOLDER CO DIV OF GARDINER METAL CO -- TIN LEAD ANTIMONY ALLOY: WW-300  
CORE -- 3439-00-438-6292

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===== Product Identification =====

Product ID:TIN LEAD ANTIMONY ALLOY: WW-300 CORE

MSDS Date:05/01/1990

FSC:3439

NIIN:00-438-6292

MSDS Number: BJZTX

=== Responsible Party ===

Company Name:GARDINER SOLDER CO DIV OF GARDINER METAL CO

Address:4820 S CAMPBELL AVE

City:CHICAGO

State:IL

ZIP:60632-1416

Country:US

Info Phone Num:312-847-0100

Emergency Phone Num: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

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

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 67%

Other REC Limits:NONE SPECIFIED

OSHA PE

L:0.05 MG/M3;1910.1025  
ACGIH TLV:0.15 MG/M3;DUST 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA III)  
CAS:7440-36-0  
RTECS #:CC4025000  
Fraction by Wt: 0.2-2.2%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG SB/M3; 9192  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
Fraction by Wt: 37%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9192

Ingred Name:ROSIN ACID  
CAS:8050-09-7  
Fraction by Wt: 0.5  
-3%  
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:YES  
Health Hazards Acute and Chronic:ACUTE-INHALATION OF FUMES(DURING  
SOLDERING):IRRITATION OF EYES AND RESPIRATORY TRACT SYSTEM.  
CHRONIC:LONG AND REPEATED EXPOSURE TO METAL FUMES MAY CAUSE  
HEADACHE, NAUSEA/VOMITING, ACHING BONES, FATIGU E, DECREASED  
APPETITE, ABDOMINAL  
CRAMPING, ANEMIA, BRAIN, HEART, LUNG, LIVER AND  
KIDNEY DEGENERATIVE CHANGES.  
Explanation of Carcinogenicity:FORMALDEHYDE IS LISTED AS A PROBABLE  
CARCINOGEN BY NTP,IARC, EPA,& IT IS REGULATED BY OSHA.  
Effects of Overexposure:EXPOSURE TO FUMES MAY RESULT IN IRRITATION OF  
NOSE, THROAT, EYES AND SKIN. BURNS FROM SKIN CONTACT OF MOLTEN  
SOLDER. WATERY EYES, HEADACHE, BREATHING DIFFICULTY, FREQUENT  
COUGHING.  
Medical Cond Aggravated by Exposure:SOME WORKERS WITH PRE-EXISTING  
COND

ITIONS OF LUNGS, EYES, SKIN, AND THOSE PREVIOUSLY EXPOSED TO  
LEAD & ANTMONY MAY BE AT INCREASED RISK.

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

First Aid:SKIN BURNS:FLUSH WITH COLD WATER OR APPLY ICE. IN CASE OF  
SEVERE BURNS GET MEDICAL HELP. EYE IRRITATION:FLUSH WITH WATER FOR  
15 MINUTES. INHALATION:REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF  
BREATHING IS DIFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL  
RESPIRATION. GET MEDICAL HELP. INGESTION:GET ME  
DICAL HELP.

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

Extinguishing Media:USE DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL  
FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:INCOMPLETE COMBUSTION OR HEAT OF FIRE MAY  
PRODUCE HAZARDOUS FUMES OF FOMALDEHYDE.

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

Spill

Release Procedures:CLEAN UP ANY 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:NONE

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

Handling and Storage Precautions:NO SPECIAL REQUIREMENTS FOR STORAGE.  
WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN SOLDERING.

Other Precautions:DO NOT INHALE FUMES.

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

Respiratory Protection:USE FUME/ORGANIC VAPOR RESPIRATOR OR AIR  
SUPPLIED RESPIRATOR WHEN SOLDERING 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 SOLDERING TO KEEP THE DUST,  
FUMES & GASES BELOW TLV.

Protective Gloves:LEATHER GLOVES

Eye Protection:OSHA APPROVED GOGGLES/FACE SHI

ELD

Other Protective Equipment:FLAME RETARDANT CLOTHING AND LEATHER GLOVES  
WHEN SOLDERING.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING.  
LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:N1

Boiling Pt:B.P. Text:2516F,1380C

Melt/Freeze Pt:M.P/F.P Text:361F,183C

Spec Gravity:8.6-11G/CC @23C

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER GREY SOLID, ODORLESS

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS AND BASES

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:TOXIC METAL FUMES ABOVE 886C(1627F).  
FROM THE ROSIN CORE; FORMALDEHYDE, CARBON MONOXIDE & DIOXIDE.

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

Waste Disposal Methods:DISPOSE OF ACCORDING TO FEDERAL, STATE & LOCAL  
REGULATIONS.

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