

GARDINER SOLDER CO DIV OF GARDINER METAL CO -- TIN-LEAD-ANTIMONY SOLDER:X-45 CORE,  
PRODUCT CODE:185 -- 3439-00-269-9610

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

MSDS Date:01/04/1993

FSC:3439

NIIN:00-269-9610

MSDS Number: BJMXS

=== Responsible Party ===

Company Name:GARDINER SOLDER CO DIV OF GARDINER METAL CO

Address:4820 S CAMPBELL AVE

Cit

y: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  
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Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 5-94.3%

Ot

her REC Limits:0.03 MG/M3

OSHA PEL: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: 5-94.3%

AS:8050-09-7

Fraction by Wt: 0.5-3%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.1MG/M3 FORMALDEHYD

ACGIH TLV:0.1MG/M3 FORMALDEHYD

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:HEALTH STUDIES HAVE SHOWN THAT  
POTENTIAL HEALTH RISKS MAY VARY BY INDIVIDUAL. ALWAYS MINIMIZE  
EXPOSURE AS A PRECAUTION. SEE OSHA 29CFR1910.1025, SUB  
PART Z.

Explanation of Carcinogenicity:LEAD IS LISTED BY IARC AS A CARCINOGEN.

Effects of Overexposure:METALLIC TASTE IN THE MOUTH. IRRITATION OF THE  
RESPIRATORY TRACT.

Medical Cond Aggravated by Exposure:RESPIRATORY/LUNG CONDITIONS.

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

First Aid:SKIN-FLUSH WITH WATER IMMEDIATELY. TREAT FOR BURNS, SEEK  
MEDICAL ATTENTION IF REQUIRED. EYES-FLUSH WITH WATER FOR 15  
MINUTES, SEEK MEDICAL ATTENTION. INGEST-DRINK LARGE AMOU  
NTS OF

WATER. SEEK MEDICAL ATTENTION. NEVER GIVE LIQUIDS TO UNCONSCIOUS  
PERSONS. INHALE-REMOVE TO FRESH AIR. SUPPORT RESPIRATION IF  
REQUIRED. SEEK MEDICAL ATTENTION.

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

Flash Point:NON FLAMMABLE

Extinguishing Media:DRY CHEMICAL, DO NOT USE WATER.

Fire Fighting Procedures:USE CONTAINED BREATHING APPARATUS ABOVE 886C  
(1627F).

Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:COLLECT AND USE, IF CONTAMINATED OR IN SMALL  
PARTICULES, VACCUM OR COLLECT MATERIAL. NEVER USE ANY METHOD WHICH  
WILL GENERATE DUST.

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

Handling and Storage Precautions:NO INFORMATION GIVEN ON MSDS BY  
SUPPLIER.

Other Precautions:AVOID CONTACT WITH FUMES AND DUST.

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

Respiratory Protection:DURING SOLDERING, TYPE:

0.03 MG/M3 - HALF-MASK;  
2.5 MG/M3 - FULL FACE MASK; 50 MG/M3 - SELF-SUSTAINED RESPIRATORY  
SUIT.

Ventilation:LOCAL EXHAUST-PREFERRED, MECHANICAL-OK, SPECIAL HEPA  
FILTERS REQUIRED.

Protective Gloves:HEAT RESISTANT DURING SOLDERING.

Eye Protection:SAFETY GOGGLES OR FACE SHIELD.

Other Protective Equipment:AS REQUIRED TO AVOID CONTACT.

Work Hygienic Practices:WASH AFTER USE. FOLLOW GOOD INDUSTRIAL HYGIENIC  
PRACTICE.

Supplemental Safety and Health

EXPOSURE TO LEAD IS REGULATED BY OSHA

1910.1025

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

HCC:N1

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

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

Vapor Pres:1MM

Spec Gravity:SOLID

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER GREY SOLID, ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:TOXIC METAL FUMES ABOVE  
800C (1627F).

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

Waste Disposal Methods:NEVER DISPOSE OF IN TRASH. HOLD FOR RECYCLING OR  
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE & LOCAL LAWS AND  
REGULATIONS.

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