

GARDINER SOLDER CO DIV GARDINER METAL CO -- TIN LEAD ANTIMONY ALLOY: XM-200 CORE --
3439-01-008-7580

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

Product ID:TIN LEAD ANTIMONY ALLOY: XM-200 CORE

MSDS Date:05/01/1990

FSC:3439

NIIN:01-008-7580

MSDS Number: BJKYH

=== Responsible Party ===

Company Name:GARDINER SOLDER CO DIV GARDINER METAL CO

Address:4820 SOUTH CAMPBELL AVENUE

City:CHICAGO

State:IL

ZIP:60632-149

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Country:US

Info Phone Num:312-847-0100

Emergency Phone Num:312-847-0100

CAGE:84311

=== Contractor Identification ===

Company Name:GARDINER SOLDER COMPANY DIV GARDINER METAL CO

Address:4820 S CAMPBELL AVE

Box:City:CHICAGO

State:IL

ZIP:60632-1494

Country:US

Phone:312-847-0100 CHEMTREC AFTER HOURS

CAGE:84311

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

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 37%

Other REC Limits:NONE SPECIFIED

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:TIN
CAS:7440-31-5
RTECS #:XP7320000
Fraction by Wt: 63%
Other REC Limits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9192

Ingred Name:ANTIMONY (SARA III)
CAS:7440-36-0
RTECS #:CC4025000
Fraction by Wt: 5000 MG/KG (ROSIN)
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:MOLTEN SOLDER ALLOYS DO
NOT PRODUCE

SIGNIFICANT LEAD FUME BELOW 700F. EXPOSURE TO HIGH LEVELS OF
AIRBORNE OR INGESTED LEAD MAY PRODUCE SYMPTOMS OF ANEMIA,
INSOMNIA, WEAKNESS, CONSTIPATION, NAUSEA & ABDOMINAL PAIN.
PROLONGED EXPOSURE MAY RESULT IN KIDNEY & NERVOUS SYSTEM
INVOLVEMENT. PREGNANT WOMEN SHOULD AVOID LEAD.

Explanation of Carcinogenicity:NOT LISTED BY NTP, IARC OR OSHA AS A
CARCINOGEN.

Effects of Overexposure:LOSS OF APPETITE, METALLIC TASTE IN THE MOUTH,
ANXIETY, CONSTIPATION, N
AUSEA, PALLOR, EXCESSIVE TIREDNESS,
WEAKNESS, INSOMNIA, HEADACHE, NERVOUS IRRITABILITY, MUSCLE AND
JOINT SORENESS, TREMORS, DIZZY NESS, AND ABDOMINAL PAIN. WHEN
HEATED, FUMES MAY CAUSE EYE, SKIN & RESPIRATORY TRACT IRRITATION.
SOLDER CAN CAUSE BURNS.

Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD-FORMING,
NERVOUS, URINARY, RESPIRATORY AND REPRODUCTIVE SYSTEMS. EXPOSURE TO
LEAD MAY RESULT IN INJURY TO A DEVELOPING FETUS.

===== First Aid Measu

res =====

First Aid:IF A PERSON BREATHES IN A LARGE AMOUNT OF ROSIN FUME, REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN AND CALL A PHYSICIAN. IF LEAD HAS BEEN INGESTED, IMMEDIATELY CALL A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. FOR EYE BURNS, FLUSH IMMEDIATELY WITH COOL WATER AND OBTAIN MEDICAL AID. FOR SKIN BURNS, COOL WITH WATER AND OBTAIN MEDICAL AID.

===== Fire Fighting Measures =====
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Flash Point:NON FLAMMABLE
Autoignition Temp:Autoignition Temp Text:NONE
Extinguishing Media:USE DRY SAND OR DRY CHEMICAL.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE.
Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:SOLID AT ROOM TEMPERATURE. IF IN MOLTEN STATE, ALLOW TO COOL AND SOLIDIFY AND THEN SCRAPE UP. VACUUM UP SMALL PARTICLES. NEVER USE ANY METHOD WHICH WILL GENERATE DUST.

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

Handling and Storage Precautions:NO SPECIAL REQUIREMENTS FOR STORAGE. READ ALL CONTAINER LABELING. FOOD AND DRINK SHOULD NOT BE CONSUMED OR TOBACCO PRODUCTS USED WHERE SOLDER IS USED.
Other Precautions:AVOID CONTACT WITH FUMES AND DUST.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR FOR LEAD, IF EXPOSURES EXCEED THE OSHA LIMIT. 0.03 MG/M3 - HALF MASK; 2.5 MG/M3 - FULL FACE MASK; 50 MG/M3 - SELF-SUSTAINED RESPIRATORY SUIT.
Ventilation:USE ENOUGH VENTILATION (GENERAL/LOCAL) TO KEEP THE FUMES FROM THE WORKERS BREATHING ZONE & BELOW PEL. HEPA FILTERS REQD.
Protective Gloves:LEATHER GLOVES
Eye Protection:SAFETY GOGGLES OR FACE SHIELD
Other Protective Equipment:AS REQUIRED TO AVOID CONTACT.
Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING

ING.
LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. FOLLOW GOOD HYGIENIC PRACTICES.

Supplemental Safety and Health
EXPOSURE TO LEAD IS REGULATED BY OSHA 1910.1025

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

HCC:T4
Boiling Pt:B.P. Text:2516F,1380C
Melt/Freeze Pt:M.P/F.P Text:361F,183C
Vapor Pres:0
Spec Gravity:7.55-11.0 G/CC
Solubility in Water:NEGLIGIBLE
Appearance and Odor:SILVER GRAY SOLID
Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS
Stability Condition to Avoid:NONE
Hazardous Decomposition Products:THE SMOKE FROM A SOLDERING OPERATION
MAY INCLUDE CARBON MONOXIDE, ABIETIC ACID, ALIPHATIC ALDEHYDES &
DITERPENE ACIDS.

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

Waste Disposal Methods:RECLAIM ALLOY OR DISPOSE OF IN ACCORDANCE WITH
FEDERAL, STATE & LOCAL LAWS AND REGULATIONS.

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