

GARDINER SOLDER COMPANY DIV GARDINER METAL CO -- TIN LEAD ANTIMONY ALLOY;XM-200
CORE;#181 -- 3439-01-146-6953

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Product Identification
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Product ID:TIN LEAD ANTIMONY ALLOY;XM-200 CORE;#181

MSDS Date:05/01/1990

FSC:3439

NIIN:01-146-6953

MSDS Number: BJKYL

=== Responsible Party ===

Company Name:GARDINER SOLDER COMPANY DIV GARDINER METAL CO

Address:4820 S CAMPBELL AVE

City:CHICAGO

State:IL

Z

IP:60632-1494

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

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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: 5-94.8%

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: 5-94.8%

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: 0.2-2.0%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.5 MG/M3

Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:ORAL LD50 (RATS) > 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, INSOMINIA, WEAKNESS, CONSTIP ATION, 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, NAUSEA, PALLOR, EXCESSIVE TIREDNESS, WEAKNESS, INSOMNIA, HEADACHE, NERVOUS IRRITABILITY, MUSCLE AND JOINT SORENESS, TREMORS, DIZZI 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.

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

First Aid:IF A PERSON BREATHE 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.

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

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:NONE

Extinguishing Media:DRY SAND,DRY CHEMICAL,DO NOT USE WATER

Fire Fighting Procedures:FIRE FIGHT

ERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:NONE EXPECTED

===== 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.

LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. FOLLOW GOOD HYGIENIC
PRACTICES.

Supplement

al 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 GREY SOLID,ODORLESS

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING MATERIALS.

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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