

GARDINER SOLDER CO DIV OF GARDINER METAL CO -- TIN LEAD SILVER SOLDER: XM-200 CORE
-- 3439-01-050-4788

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

Product ID:TIN LEAD SILVER SOLDER: XM-200 CORE

MSDS Date:05/01/1990

FSC:3439

NIIN:01-050-4788

MSDS Number: BJZXW

=== 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 METAL CO

Address:4820 SOUTH CAMPBELL AVENUE

City:CHICAGO

State:IL

ZIP:60632

Country:US

Phone:312-847-0100, 800-424-9300

CAGE:73766

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:LEAD (SARA III)
CAS:7439-92-1
RTECS #:OF7525000
Fraction by Wt: 92-94%
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:SILVER (SARA III)
CAS:7440-22-4
RTECS #:VW3500000
Fraction by Wt: 5-6%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.01 MG/M3
ACGIH TLV:0.1 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
Other REC L
imits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3; 9192

Ingred Name:ROSIN ACID
CAS:8050-09-7
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, FATIGUE, 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 Conditions Aggravated by Exposure: SOME WORKERS WITH PRE-EXISTING CONDITIONS OF LUNGS, EYES, SKIN, AND THOSE PREVIOUSLY EXPOSED TO LEAD & ANTIMONY MAY BE AT INCREASED RISK.

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First Aid Measures
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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 MEDICAL HELP.

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Fire Fighting Measures
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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 FORMALDEHYDE.

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Accidental Release Measures
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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

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Handling and Storage
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Handling and Storage Precautions: NO SPECIAL REQUIREMENTS FOR STORAGE. WEAR GLOVES

ES AND FLAME RETARDANT CLOTHING WHEN SOLDERING.

Other Precautions:DO NOT INHALE FUMES.

===== 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 SHIELD

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

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDRY 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

===== 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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