

GARDINER SOLDER CO DIV GARDINER METAL CO -- TIN LEAD ANTIMONY ALLOY: XM-200 CORE --
3439-01-026-1084

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

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

MSDS Date:05/01/1990

FSC:3439

NIIN:01-026-1084

MSDS Number: BPHPY

==== Responsible Party ===

Company Name:GARDINER SOLDER CO DIV GARDINER METAL CO

Address:4820 SOUTH CAMPBELL AVENUE

City:CHICAGO

State:IL

ZIP:60632-149

4

Country:US

Info Phone Num:312-847-0100

Emergency Phone Num:312-847-0100, CHEMTREC 800-424-9300

CAGE:84311

==== 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

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 CHEMTRE

C AFTER HOURS

CAGE:84311

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

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 5-94.8%

Other 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%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.5 MG/M3

Qty:5000 LBS

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:ROSIN
CAS: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

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazar

ds 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, FATIG UE, 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 Overexpos

ure: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
CONDITIONS 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 MEDICAL HELP.

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

Extinguishing Media:DRY CHEMICAL. DO NOT USE WATER.

Fire Fighting Procedures:FIRE FIGHTERS 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:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

===== 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 BREATH FUMES WHILE SOLDERING.

===== 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.
LAUNDER CONTAMINATED CLOTHI

NG 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

Vapor Pres:1 AT 1626F

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER GREY SOLID, ODORLESS

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS. STRONG ACIDS.

Stability Condition to Avoid:NONE

Hazardous Decompo

sition Products:TOXIC METAL FUMES ABOVE 886C(1627F).

FROM THE ROSIN CORE; FORMALDEHYDE, CARBON MONOXIDE & DIOXIDE.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and

disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.