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GARDINER SOLDER CO DIV GARDINER METAL CO -- XM-200 CORE TIN LEAD ANTIMONY ALLOY -- 3439-01-008-7577

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

Product ID:XM-200 CORE TIN LEAD ANTIMONY ALLOY

MSDS Date:05/01/1990

FSC:3439

NIIN:01-008-7577

MSDS Number: BJMGQ === Responsible Party ===

Company Name: GARDINER SOLDER CO DIV GARDINER METAL CO

Address:4820 S CAMPBELL AVE

City:CHICAGO

State:IL

ZIP:60632-1494

Countr y:US

Info Phone Num:312-847-0100

Emergency Phone Num:312-847-0100 OR 800-424-9300 CHEMTR

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:TIN CAS:7440-31-5

RTECS #:XP7320000 Fraction by Wt: 63.5%

Other REC Limits: NONE SPECIFIED

0

SHA PEL:2 MG/M3 ACGIH TLV:2 MG/M3; 9192

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000 Fraction by Wt: 35.53%

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: ANTIMONY (SARA III)

CAS:7440-36-0

RTECS #:CC4025000 Fraction by Wt: 0.5%

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:BISMUTH

CAS:7440-69-9

**RTEC** 

S #:EB2600000

Fraction by Wt: 0.25%

Other REC Limits: NONE SPECIFIED

Ingred Name: COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000 Fraction by Wt: 0.08%

Other REC Limits:NONE SPECIFIED OSHA PEL:0.1MG/M3 FUME/1 DUST ACGIH TLV:0.2MG/M3 FUME; 9192

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: ARSENIC (SARA III)

CAS:7440-38-2

RTECS #:CG0525000 Fraction by Wt: 0.03%

Other REC Limits: NONE SPECIFIED

OSHA PEL:0.5 MG/M3 (AS)

ACGIH TLV:0.01,A1 MG/M3; 9394

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingr

ed Name:IRON CAS:7439-86-6

RTECS #:NO6925000 Fraction by Wt: 0.02%

Other REC Limits: NONE SPECIFIED

Ingred Name: ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000 Fraction by Wt: 0.005%

Other REC Limits:NONE SPECIFIED OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:ZINC (SARA III)

CAS:7440-66-6

RTECS #:ZG8600000 Fraction by Wt: 0.005%

Other REC Limits: NONE SPECIFIED

OSHA PEL:10 MG ZNO/M3

ACGIH TLV:10 MG ZNO/M3; 9192

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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:NO

Health Hazards Acute and Chronic:ACUTE: WHILE IT IS POSSIBLE FOR LEAD TAKEN IN EXTREMELY LARGE DOSES TO CAUSE ENCEPHALOPATHY, A BRAIN CONDITION THAT CAN RESULT IN SEIZURES, COMA AND DEATH, EXPOSURES OF THIS MAGNITUDE ARE HIGHLY UNUSU AL. CHRONIC: MAY

RESULT IN DAMAGE

TO THE BLOOD-FORMING, NERVOUS, URINARY AND REPRODUCTIVE SYSTEMS. Explanation of Carcinogenicity: NOT LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN. ARSENIC IS KNOWN TO BE CARCINOGENIC AND IS PRESENT IN TRACE AMOUNTS.

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, ABDOMINAL PA

| PAIN/WEAKNESS, WEIGHT LOSS,LEAD LINE ON GUMS, MENTAL CONFUSION. Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD-FORMING, NERVOUS, URINARY AND REPRODUCTIVE SYSTEMS. EXPOSURE TO LEAD MAY RESULT IN INJURY TO A DEVELOPING FETUS. WOMEN OF CHILD BEARING AGE SHOULD AVOID EXPOSURE TO LEAD.   |
|--|
| ======================================   |
| First Aid:IF A PERSON BREATHES IN A LARGE AMOUNT OF DUST OR FUMES, REMOVE FROM EXPOSURE. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. CALL A PHYSICIAN. IF LEAD HAS BEEN INGESTED, INDUCE VOMITING IF THE INDIVIDUAL IS CONSCIOUS. CALL A PHYSICIAN. IF LEAD GETS IN EYES, FLUSH WITH A LARGE AMOUNT OF WATER. CALL A PHYSICIAN. TREAT MOLTEN METAL BURNS AS ORDINARY BURN FIRST AID.   |
| ======================================   |
| Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL AS APPROPRIATE FOR SURROUNDING MATERIAL.  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. LEAD AND OTHER TOXIC HEAVY METAL FUMES WILL BE EVOLVED AT HIGH TEMPERATURE. |
| ========== Accidental Release Measures ==========  |
| Spill Release Procedures:CLEAN UP BY VACUUMING TO MINI MIZE DUST EXPOSURE. PROVIDE CLEAN UP EMPLOYEES WITH RESPIRATORS IF THE POSSIBILITY FOR EXPOSURE TO DUST OR FUMES EXISTS.  |
| ======================================   |
| Handling and Storage Precautions:PRACTICE GOOD HOUSEKEEPING TO PREVENT ACCUMULATION OF DUST. DO NOT SMOKE OR EXPOSE FOOD OR DRINK TO DUST. WASH HANDS AFTER HANDLING.  Other Precautions:REFER TO OSHA STANDARD 29CFR 1910.1025 FOR LEAD EXPOSURE CONTROL.   |
| ====== Exposure Controls/Perso   |

IN, JOINT

Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR FOR LEAD, IF EXPOSURES EXCEED THE OSHA LIMIT. HEPA FILTERS MAY BE NEEDED FOR GENERAL VENTILATION.

Ventilation: USE ENOUGH VENTILATION WHEN CUTTING OR GRINDING TO KEEP THE DUST AND FUMES FROM THE WORKERS BREATHING ZONE & BELOW PEL.

Protective Gloves:LEATHER GLOVES

Eye Protection: OSHA APPROVED SAFETY GLASSES.

Other Protective Equipment: SAFETY EYEWASH STATION

Work Hygienic Practices: WASH THOROUGHLY B

EFORE EATING OR SMOKING.

LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

EXPOSURE TO LEAD IS REGULATED BY OSHA 1910.1025. USE FACE SHIELD IF THERE IS DANGER OF SPLASHING MOLTEN METAL. MANUFACTURER RECOMMENDS MECHANICAL VENTILATION OF AT LEAST 200 FT/MIN OF AIR VELOCITY A ND USE OF A LOCALIZED FUME HOOD OVER WORK AREA. DO NOT USE DRY SWEEPING OR COMPRESSED AIR CLEANING SYSTEMS.

======== 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 @886C Spec Gravity:7.55-11

Solubility in Water: NEGLIGIBLE

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 SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:LEAD OXIDE AND ANTIMONY OXIDE FUMES EVOLVED AS TEMPERATURES >1000F.

BASE METAL FUMES ALSO EVOLVED.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE & LOCAL LAWS AND REGULATIONS. SCRAP DRIPPINGS AND DROSSES SHOULD BE KEPT IN A CLOSED CONTAINER AND RETURNED TO LEAD RECYCLER.

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