

GARDINER SOLDER CO, DIV OF GARDINER METAL CO -- TIN/SILVER ALLOYS,SN 96 BS --  
3439-01-058-6797

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

Product ID:TIN/SILVER ALLOYS,SN 96 BS

MSDS Date:01/04/1993

FSC:3439

NIIN:01-058-6797

MSDS Number: BQDNV

=== 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 P

Phone Num:312-847-0100

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

CAGE:56244

=== 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

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

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 93 - 99%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:

2 MG/M3  
ACGIH TLV:2 MG/M3; 9293

Ingred Name:SILVER (SARA III)  
CAS:7440-22-4  
RTECS #:VW3500000  
Fraction by Wt: 1 - 7%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.01 MG/M3  
ACGIH TLV:0.1 MG/M3; 9293  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE AND CHRONIC- INHALATION OF DUST  
MAY CAUSE IRRITATION. PROLONGED EXPOSURE CAN CAUSE PERMANENT  
RESPIRATORY DAMAGE. HEALTH STUDIES HAVE SHOWN THAT POTENTIAL HEALTH  
RISKS MAY VARY BY INDIVIDUAL. ALWAYS MINIMIZE EXPOSURE AS A  
PRECAUTION.  
Effects of Overexposure:INHALATION OF DUST MAY CAUSE IRRITATION.  
PROLONGED EXPOSURE CAN CAUSE PERMANENT RESPIRATORY DAMAGE. HEALTH  
STUDIES HAVE SHOWN THAT POTENTIAL HEALTH RISKS MAY VARY BY  
INDIVIDUAL. ALWAYS MINIMIZE EXPOSURE AS A PRECAUTION.  
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS  
OR WITH A PRE-EXISTING DISEASE INVOLVING RESPIRATORY TRACT MAY BE  
AT INCREASED RISK FROM EXPOSURE.

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

First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED  
BY THE AMERICAN RED CROSS. INHALED:REMOVE TO FRESH AIR. PROVIDE  
CPR/OXYGEN IF NEEDED. IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER &  
FOLLOW RECOMMENDED TREATMENT. IN CASE OF BURNS, CALL PHYSICIAN. IF  
IN EYES, FLUSH WITH WATER FOR 15 MINUTES. IF SKIN IS BURNED, TREAT  
FOR BURN.

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

Flash Point:NONFLAMMABLE  
Extinguishing Media:DRY CHEMICAL, DO NOT USE WATER.  
Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS ABOVE  
1000C (1832F).  
Unusual Fire/Explosion Hazard:IF GENERATED, DUST IS EXPLOSIVE ABOVE  
1100F.

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

Spill Release Procedures:IF MATERIAL

IS RELEASED OR SPILLED, COLLECT AND USE. IF CONTAMINATED OR IN SMALL PARTICLES, VACUUM OR COLLECT MATERIAL. NEVER USE METHODS WHICH GENERATE DUST.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORAGE- STORE IN A DRY PLACE.

Other Precautions:READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THE PRODUCT. AVOID BREATHING FUMES OR DUSTS.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHILE WELDING IN CONFINED SPACE OR GENERAL WORK AREA.

Ventilation:LOCAL EXHAUST AT THE ARC.

Protective Gloves:WELDER'S GLOVES

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS

Other Protective Equipment:WEAR HAND, HEAD AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

INSULATE FROM WORK AND GROUND. TRAIN THE WELDER NOT TO PERMIT ELECTRICALLY LIVE PARTS TO CONTACT SKIN OR CLOTHING OR GLOVES IF THEY ARE WET.

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

HCC:N1

Boiling Pt:B.P. Text:4010F,2210C

Melt/Freeze Pt:M.P/F.P Text:48

6F,252C

Vapor Pres:1 @ 1375C

Spec Gravity:7.46

Solubility in Water:INSOLUBLE

Appearance and Odor:GREY SOLID, ODORLESS

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, STRONG OXIDIZING AGENTS

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:TOXIC METAL FUMES ABOVE 1000C (1832F)

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

Waste Disposal Methods:NEVER DISPOSE IN TRASH. HOLD FOR

RECYCLING OR

DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL  
REGULATIONS.

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