

ALPHA METALS -- SOLDER ALLOY - LEAD, TIN, SILVER, BISMUTH, -- 3439-00-824-9856

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Product Identification  
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Product ID:SOLDER ALLOY - LEAD, TIN, SILVER, BISMUTH,

MSDS Date:03/13/1990

FSC:3439

NIIN:00-824-9856

MSDS Number: BMGXZ

=== Responsible Party ===

Company Name:ALPHA METALS

Address:600 ROUTE 440

City:JERSEY CITY

State:NJ

ZIP:07304

Country:US

Info Phone Num:201-434-6778

Emergency Phone

Num:201-434-6778

CAGE:96613

=== Contractor Identification ===

Company Name:FRYS METALS INC (FORMER ALPHA METALS)

Address:600 ROUTE 440

Box:City:JERSEY CITY

State:NJ

ZIP:07304

Country:US

Phone:201-434-6778

CAGE:96613

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Composition/Information on Ingredients  
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Ingred Name:LEAD (SARA III) (COMPOSITION OF SOLDER ALLOYS VARY WIDELY.

SEE PRODUCT LABEL FOR COMPOSITION)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.05 MG/M3;1910.1025

ACGIH TL

V:0.15 MG/M3;DUST 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:TIN (COMPOSITION OF SOLDER ALLOYS VARY WIDELY. SEE PRODUCT LABEL FOR COMPOSITION)

CAS:7440-31-5

RTECS #:XP7320000

Other REC Limits:NONE SPECIFIED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9192

Ingred Name:SILVER (SARA III) (COMPOSITION OF SOLDER ALLOYS VARY WIDELY. SEE PRODUCT LABEL FOR COMPOSITION.)

CAS:7440-22-4

RTECS #:VW3500000

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:BISMUTH (COMPOSITION OF SOLDER ALLOYS VARY WIDELY. SEE PRODUCT LABEL FOR COMPOSITION.)

CAS:7440-69-9

RTECS #:EB2600000

Other REC Limits:NONE SPECIFIED

Ingred Name:ANTIMONY (SARA III) (COMPOSITION OF SOLDER ALLOYS VARY WIDELY. SEE PRODUCT LABEL FOR COMPOSITION.)

CAS:7440-36-0

RTECS #:CC4025000

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:INDIUM (COMPOSITION OF SO

LEADER ALLOYS VARY WIDELY. SEE LABEL FOR COMPOSITION)

CAS:7440-74-6

RTECS #:NL1050000

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.1 MG/M3

ACGIH TLV:0.1 MG/M3; 9192

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

LD50 LC50 Mixture:NOT SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:EXPOSURE TO HIGH LEVELS OF AIRBORNE OR  
INGESTED LEAD MAY PRODUCE GA

STROINTESTINAL DISTURBANCES, CENTRAL

NERVOUS SYSTEM DISTURBANCES. OVEREXPOSURE MAY CAUSE DAMAGE TO BLOOD  
FORMING, NERVOUS, REPRODUCTIVE, INTESTINAL AND URINARY SYSTEMS.

LEAD CAN CAUSE POTENTIAL INJURY TO A DEVELOPING FETUS. SEE  
SUPPLEMENTAL DATA.

Explanation of Carcinogenicity:IARC CLASSIFIES LEAD AND SOME LEAD  
COMPOUNDS AS POSSIBLY CARCINOGENIC TO HUMANS.

Effects of Overexposure:ANEMIA, INSOMNIA, WEAKNESS, CONSTIPATION,  
NAUSEA, ABDOMINAL PAIN, IRRITABILITY, MUSCULAR PAI

N, RESPIRATORY

TRACT IRRITATION, METALLIC TASTE, KIDNEY/LIVER DAMAGE, NERVOUS  
SYSTEM DAMAGE, WEIGHT LOSS, PULMONARY EDEMA, BLOOD DAMAGE,  
DEGENERATIVE CHANGES IN LIVER AND KIDNEYS, BENIGN PNEUMOCONIOSIS.

Medical Cond Aggravated by Exposure:DISEASES OF THE BLOOD AND

BLOOD-FORMING ORGANS, KIDNEYS, NERVOUS AND POSSIBLY REPRODUCTIVE  
SYSTEMS.

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

First Aid:INHALATION: IF SYMPTOMS OF OVEREXPOSURE ARE PRESENT,  
IN

DIVIDUAL SHOULD BE REMOVED FROM EXPOSURE AND A PHYSICIAN

CONSULTED. INGESTION: CALL A PHYSICIAN OR POISON CONTROL AT ONCE.

SKIN CONTACT: FOR HOT METAL BURNS, EXPOSED AREA SHOULD BE COOLED  
WITH WATER. GET MEDICAL ATTENTION. EYE CONTACT: FLUSH WITH WATER.

CONTACT A PHYSICIAN.

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

Flash Point:NONFLAMMABLE

Lower Limits:NONFLAMMABLE

Upper Limits:NONFLAMMABLE

Extinguishing Media:NONFLAMMABLE. USE MEDIA APPROPRIATE FOR

## SURROUNDING

### FIRE.

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING IF INVOLVED IN A FIRE.

Unusual Fire/Explosion Hazard:MODERATE IN THE FORM OF DUST WHEN EXPOSED TO HEAT OR FLAME. WHEN HEATED TO HIGH TEMPERATURES, LEAD EMITS HIGHLY TOXIC FUMES.

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

Spill Release Procedures:AVOID INHALATION OF SOLDER FUME OR DUST. VACUUMING OR WASHING IS RECOMMENDED. DO NOT USE DRY SWEEPING OR COMPRESSED AIR CLEANING SYSTEMS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:FOOD AND DRINK SHOULD NOT BE CONSUMED OR TOBACCO PRODUCTS USED, NOR COSMETICS APPLIED IN AREAS WHERE SOLDER MAY BE USED.

Other Precautions:SINCE EMPTY CONTAINERS MAY RETAIN PRODUCT RESIDUES (VAPOR, LIQUID OR SOLID) ALL LABELED HAZARD PRECAUTIONS MUST BE OBSERVED.

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

Respiratory Protection:A NIOSH/MSHA APPROVED DUST/FUME RESPIRATOR SHOULD BE WORN WHERE AIRBORNE EXPOSURES MAY EXCEED OSHA/ACGIH PERMISSABLE AIR CONCENTRATIONS.

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW PERMISSABLE LEVELS

Protective Gloves:WELDERS GLOVES

Eye Protection:SAFETY GLASSES AND/OR FACE PROTECTION

Other Protective Equipment:WORK CLOTHES SHOULD BE WORN TO REDUCE BURN

EXPOSURE. LAUNDRY IN ACCORDANCE WITH CURRENT OSHA LEAD STANDARDS.

Work Hygienic Practices:ALWAYS WASH HANDS AFTER HANDLING SOLDER AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

OVEREXPOSURE TO TIN DUST OR FUME MAY CAUSE IRRITATION OF SKIN, MUCOUS MEMBRANES. SILVER MAY CAUSE DISCOLORATION OF EYES AND SKIN. BISMUTH MAY CAUSE FOUL BREATH, A BLUE-BLACK LINE ON GUMS AND STOMATITIS. ANTIMONY MAY CAUSE GASTROINTESTINAL UPSET,

RESPIRATORY TRACT

IRRITATION. INDIUM MAY CAUSE WEIGHT LOSS, PULMONARY EDEM

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:NIL

Vapor Density:NOT GIVEN

Spec Gravity:NOT GIVEN

Evaporation Rate & Reference:NIL

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER-GRAY METAL, ODORLESS, VARIOUS SHAPES AND SIZES

Percent Volatiles by Volume:0 %

===== Stability and R

eactivity Data =====

Stability Indicator/Materials to Avoid:YES

OXIDIZING MATERIALS, ACIDS, HYDROGEN PEROXIDE >52%

Stability Condition to Avoid:EXTREMELY HIGH TEMPERATURES UNLESS UNDER CONTROLLED CIRCUMSTANCES

Hazardous Decomposition Products:LEAD OXIDE AND ANTIMONY OXIDE FUME MAY BE EVOLVED AT TEMPERATURES GREATER THAN 1000F

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

Waste Disposal Methods:SCRAP OR WASTE SOLDER SHOULD BE RECYLCED OR STORED IN

SEALED CONTAINERS FOR LATER DISPOSAL. DISPOSAL SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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