

ALPHA METALS -- SOLDER ALLOYS -- 3439-01-146-6953

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Product Identification
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Product ID:SOLDER ALLOYS

MSDS Date:03/13/1990

FSC:3439

NIIN:01-146-6953

MSDS Number: BJMJF

=== 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 OR 800-424-9300 CHEMTR

CAGE:96613

=== Con

tractor 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:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 63.5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9192

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 35.56%

Other REC Limits:NON

E 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
RTECS #: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:
t: 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

Ingred 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 PAIN, JOINT 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.

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

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.

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

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.

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

Spill Release Procedures:CLEAN UP BY VACUUMING TO MINIMIZE DUST EXPOSURE. PROVIDE CLEAN UP EMPLOYEES WITH RESPIRATORS IF THE POSSIBILITY FOR EXPOSURE TO DUST OR FUMES EXISTS.

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

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.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR FOR LEAD, IF EXPOSURES EXCEED THE OSHA LIMIT. HEPA F

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 BEFORE EATING OR SMOKING.
LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

EXPOSURE TO LEAD IS REGULATED BY OSHA 19

10.1025. USE FACE SHIELD IF

THERE IS DANGER OF SPLASHING MOLTEN METAL. MANUFACTURER RECOMMENDS
MECHANICAL VENTILATION OF AT LEAST 200 FT/MIN OF AIR VELOCITY AND
USE OF A LOCALIZED FUME HOOD OVER WORK AREA. DO NOT USE DRY
SWEEPING OR COMPRESSED AIR CLEANING SYSTEMS.

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

HCC:N1

Solubility in Water:NEGLIGIBLE

Appearance and Odor:SILVER GREY SOLID, ODORLESS, VARIOUS SHAPES/SIZES

===== Stability and Rea
ctivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, ACIDS, HYDROGEN PEROXIDE(>52%)

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 DROPPINGS SHOULD BE

KEPT IN A CLOSED CONTAINER AND RETURNED TO LEAD RECYCLER.

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