

FEDERATED-FRY METALS INC,DIV OF COOKSON AMERICA -- FLOWSOLDER ALLOYS --  
3439-00-188-6988

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

Product ID:FLOWSOLDER ALLOYS

MSDS Date:01/29/1991

FSC:3439

NIIN:00-188-6988

MSDS Number: BQSCT

=== Responsible Party ===

Company Name:FEDERATED-FRY METALS INC,DIV OF COOKSON AMERICA

Address:6TH AVE AND 41ST ST

City:ALTOONA

State:PA

ZIP:16602

Country:US

Info Phone Num:814-946

-1611

Emergency Phone Num:814-946-1611,800-424-9300(CHEMTREC)

Preparer's Name:DON PORTER

CAGE:65172

=== Contractor Identification ===

Company Name:FRY TECHNOLOGY DIV OF COOKSON AMERICA INC

Address:6TH AVE AND 41ST ST

Box:City:ALTOONA

State:PA

ZIP:16602

Country:US

Phone:814-946-1611

CAGE:65172

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

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 0-100%

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: 0-100%  
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: 0-15%  
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:SILVER (SARA III)  
CAS:7440-22-4  
RTECS #:VW3500000  
Fraction  
by Wt: 0-10%  
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  
CAS:7440-69-9  
RTECS #:EB2600000  
Fraction by Wt: 0-60%  
Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES



ED.

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

Respiratory Protection:ONLY REQUIRED IF TLV'S ARE EXCEEDED. USE A NIOSH/MSHA APPROVED RESPIRATOR FOR TOXIC DUST AND/OR FUME.  
Ventilation:IF FUME OR DUST IS BEIMG GENERATED, MECHANICAL VENTILATION MUST BE PROVIDED TO MAINTAIN EXPOSURE LEVELS BELOW TLV'S.  
Protective Gloves:NONE NORMALLY REQUIRED.  
Eye Protection:WEAR SAFETY GLASSES DURING SOLDIERING.  
Other Protective Equipment:NONE NORMALLY REQUIRED.  
Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health

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

HCC:N1  
Melt/Freeze Pt:M.P/F.P Text:360F,182C  
Vapor Pres:NONE  
Vapor Density:NONE  
Spec Gravity:7-11  
Evaporation Rate & Reference:NOT VOLATIVE  
Solubility in Water:NIL  
Appearance and Odor:SILVER TO GREY METAL.

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

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS, STRONG OXIDIZERS, REDUCING AGENTS, HALOGENS, ACETYLENE.  
Hazardous Decomposition Products:LEAD FUMES AT HIGH TEMPERATURES (ABOVE 800F).  
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:RETURN WASTE TO SUPPLIER FOR REPOCESSING.  
DISPOSE OF NON REPROCESSABLE WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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ed with this information by the compiling agencies):

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