

FEDERATED-FRY METALS INC DIV OF COOKSON AMERICA -- ROSIN FLUX CORED SOLDER WIRES,  
WRP, WRMAP, WRAP -- 3439-01-146-6953

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

Product ID:ROSIN FLUX CORED SOLDER WIRES, WRP, WRMAP, WRAP

MSDS Date:02/12/1992

FSC:3439

NIIN:01-146-6953

MSDS Number: BXVQY

=== Responsible Party ===

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

Address:6TH AVE AND 41ST ST

City:A

LTOONA

State:PA

ZIP:16602

Country:US

Info Phone Num:814-946-1611/FAX 814-944-8094

Emergency Phone Num:814-946-1611/CHEMTREC 800-424-9300

Preparer's Name:DON PORTER

CAGE:65172

=== Contractor Identification ===

Company Name:FEDERATED-FRY METALS INC

Box:City:ALTOONA

State:PA

Country:US

CAGE:7Z553

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

=====  
===== Composition/Information on In  
gredients =====

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Other REC Limits:NOT DETERMINED

OSHA PEL:2 MG/M3

ACGIH TLV:2 MG/M3; 9495

Ingred Name:LEAD (SARA 313) (CERCLA)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits:NOT DETERMINED

OSHA PEL:SEE 1910.1025

ACGIH TLV:0.15MG/M3 DUST; 9495

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY (SARA 313) (CERCLA)

CAS:7440-36-0

Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:BISMUTH  
CAS:7440-69-9  
RTECS #:EB2600000  
Other REC Limits:NOT DETERMINED

Ingred Name:SILVER (SARA 313) (CERCLA)  
CAS:7440-22-4  
RTECS #:VW3500000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.01 MG/M3  
ACGIH TLV:0.1 MG/M3; 9495  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:INDIUM  
CAS:7440-74-6  
RTECS #:NL1050000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.1 MG/M3; 9495

Ingred Name:ROSIN ACID  
CAS:8050-09-7  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:HOT METAL WILL CAUSE THERMAL BURNS.  
ROSIN:FUMES IRRITATE THE EYES, SKIN & RESPIRATORY TRACT. LOW TOXICITY IF INGESTED. OVEREXPOSURE TO METALS (LEAD) IS UNLIKELY AS ONLY INSIGNIFICANT AMOUNTS ARE PRODUCED BELOW 700F. INHALATION OF LEAD OR ANTIMONY FUMES OR INGESTION OF DUST OR FUME IS TOXIC & MUST BE AVOIDED.  
Explanation of Carcinogenicity:IARC CLASSIFIES LEAD AND SOME LEAD COMPOUNDS AS GROUP 2B CARCINOGENS. SEE INDIVIDUAL REPORT FOR DETAILS.  
Effects of Overexposure:EYES:IRRITATION. SKIN:THERMAL BURNS. POSSIBLE IRRITATION. INGESTION:(LEAD)ANEMIA, INSOMNIA, WEAKNESS, IRRITABILITY, CONSTIPATION, STOMACH PAINS. (TIN)FEVER, NAUSEA, STOMACH CRAMPS, DIARRHEA. (ANTIMONY )NA

SAL ULCERATION, STOMACH

IRRITATION. INHALATION:DIZZINESS, HEADACHE, CNS DAMAGE, KIDNEY EFFECTS, REPRODUCTIVE EFFECTS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:THERMAL BURNS:COOL WITH COLD WATER & GET MEDICAL TREATMENT.  
IF IRRITATION PERSISTS OR IS SEVERE, GET MEDICAL ATTENTION.  
EYE/SKIN:FLUSH W/WATER FOR 15 MIN. INHALED:REMOVE FROM EXPOSURE.  
AID OR RESTORE BREATHING AS  
NEEDED. INGESTED:GET IMMEDIATE MEDICAL  
ATTENTION. NOTHING BY MOUTH IF UNCONSCIOUS.

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

Fire Fighting Procedures:WEAR NIOSH APPROVED SELF-CONTAINED BREATHING  
EQUIPMENT IF PRODUCT IS INVOLVED IN A FIRE.  
Unusual Fire/Explosion Hazard:WHEN HEATED TO HIGH TEMPERATURES, LEAD  
EMITS TOXIC FUMES.

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

Spill Release Procedures:IF MOLTEN, ALLOW TO COOL AND SOLIDIFY THEN  
SCRAPE UP.  
Neutralizing Agent:MFR GAVE NO INFORMATION ON MSDS.

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

Handling and Storage Precautions:NO SPECIAL REQUIREMENTS.  
Other Precautions:READ WARNING LABELS (IF APPLICABLE). KEEP OUT OF  
REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. DO NOT TAKE INTERNALLY.

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

Respiratory Protection:REQUIRED IF TLV'S ARE NOT BEING MAINTAINED. USE  
NIOSH APPROVED  
RESPIRATOR FOR EITHER ORGANIC VAPORS, DUST/FUME  
(HIGH EFFICIENCY FILTERS) OR BOTH IF TLVS ARE EXCEEDED.  
Ventilation:PROVIDE SUFFICIENT VENTILATION TO MAINTAIN EXPOSURE LEVELS  
BELOW TLV'S.  
Protective Gloves:NOT USUSALLY NECESSARY.  
Eye Protection:WEAR FACE SHIELD OR GOGGLES  
Work Hygienic Practices:NO FOOD, DRINK OR TOBACCO SHOULD BE ALLOWED  
WHERE CORE SOLDER IS USED. WASH HANDS THOROUGHLY AFTER HANDLING  
CORE SOLDER.  
Supplemental Safety and Health  
NONE

=====  
===== Physical

/Chemical Properties =====

HCC:N1

NRC/State Lic Num:NONE

Boiling Pt:B.P. Text:DEPENDS

Solubility in Water:INSOLUBLE

Appearance and Odor:ILVER GREY WIRE, VARIOUS SHAPES AND SIZES, NO ODOR

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

Stability Indicator/Materials to Avoid:YES

OXIDIZERS, STRONG ACIDS.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:THE FUMES EMITTED IN A SOLDERING OPERATION MAY CONTAIN FORMALDEHYDE, CARBON DIOXIDE, ROSIN, & ROSIN DERIVATIVES.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:RETURN FOR REPROCESSING. MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied,

warrants this information to be accurate and

disclaims all liability for its use. Any person utilizing this

document should seek competent professional advice to verify and

assume responsibility for the suitability of this information to their

particular situation.