

FEDERATED-FRY METALS INC. -- ROSIN FLUX CORED SOLDER WIRE,WRP,WRAP,WRNAP --  
3439-01-045-0479

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

Product ID:ROSIN FLUX CORED SOLDER WIRE,WRP,WRAP,WRNAP

MSDS Date:09/30/1988

FSC:3439

NIIN:01-045-0479

MSDS Number: BGHKKH

=== Responsible Party ===

Company Name:FEDERATED-FRY METALS INC.

Address:6TH AVENUE & 41ST STREET

City:ALTOONA

State:PA

ZIP:16602

Country:US

Info Phone

Num:814-946-1611 FAX: 814-944-8094

Emergency Phone Num:814-946-1611

Preparer's Name:NORMAN MCLEOD

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

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

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000

Fraction by Wt: 61.5%

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: 37.53%  
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:SILVER  
CAS:7440-22-4  
RTECS #:VU3500000  
OSHA PEL:0.01 MG AG/M3  
ACGIH TLV:0.1 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:BISMUTH  
CAS:7440-69-9  
RTECS #:EB2600000

Ingred Name:INDIUM  
CAS:7440-74-6  
RTECS #:NL1050000  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.1 MG/M3; 9192

Ingred Name:ANTIMONY (SARA III)  
CAS:7440-36-0  
RTECS  
#:CC4025000  
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:ROSIN  
CAS:8050-09-7  
Fraction by Wt: 1-4%

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

LD50 LC50 Mixture:LD50 ORAL RAT >5000 MG/KG  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:LEAD IS TOXIC,ESPECIALLY WITH CHRONIC  
OVEREXPOSURE,PRODUCING ANEMIA,WEAKNESS,NAU

SEA, ABDOMINAL

PAIN, CONSTIPATION. IT MAY ALSO INVOLVE KIDNEY AND NERVOUS SYSTEM EFFECTS. ROSIN FUMES CAN BE IRRITATING. OTHER HAZARDS ARE THERMAL BURN AND ELECTRICAL SHOCK.

Explanation of Carcinogenicity: LEAD IS LISTED UNDER IARC AND NTP.

Medical Condition Aggravated by Exposure: INDIVIDUALS WITH A HISTORY OF RESPIRATORY, KIDNEY OR CENTRAL NERVOUS SYSTEM DISEASES MAY BE MORE ADVERSELY AFFECTED BY THE FUMES OF THIS PRODUCT.

===== First Aid Measures =====  
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First Aid: EYES: FOR FUME IRRITATION, REMOVE FROM EXPOSURE. FLUSH WITH PLENTY OF WATER. SEE DOCTOR. SKIN: FOR BURNS, COOL WITH COLD WATER. SEE DOCTOR. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. SEE DOCTOR.

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

Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

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: NONE.

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

Spill Release Procedures: IF MOLTEN, ALLOW TO COOL AND SOLIDIFY. THEN SCRAPE UP.

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

Handling and Storage Precautions: NO SPECIAL REQUIREMENTS.

Other Precautions: NONE

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

Respiratory Protection: USE NIOSH/MSHA-APPROVED RESPIRATOR WITH FUMES CARTRIDGE IF TLV IS EXCEEDED.

Ventilation: USE HOOD OR OTHER LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV/PEL.

Protective Gloves: WELDER'S GLOVES.

Eye Protection: SAFETY GLASSES; GOGGLES FOR ROSIN FUMES.

Other Protective Equipment: CLOTHING TO PROTECT AGAINST BURNS.

Work Hygienic Practices: USE NORMAL INDUSTRIAL HYGIENE PRACTICES.

Supplemental Safety and Health

FOR INDUSTRIAL USE ONLY. DO NOT TAKE INT

ERNALLY. INGREDIENTS PERCENTAGE  
SHOWN ARE AS SPECIFIED IN CTDF.

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

HCC:N1  
Solubility in Water:NIL  
Appearance and Odor:SILVER,GRAY WIRE,NO ODOR.  
Percent Volatiles by Volume:NIL

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

Stability Indicator/Materials to Avoid:YES  
OXIDIZERS, STRONG ACIDS  
Stability Condition to Avoid:NONE  
Hazardous Decomposition Products:FORMALDEHYDE, CARBON MONOXIDE, ROSIN,  
AND RO  
SIN DERIVATIVES.

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

Waste Disposal Methods:DISPOSE I/A/W FEDERAL,STATE,LOCAL REGULATIONS.  
MFR SUGGESTS RECYCLE.

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