

FEDERATED-FRY METALS INC DIV OF COOKSON AMERICA -- ROSIN FLUX CORED SOLDER WIRE  
-- 3439-00-824-5463

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

Product ID:ROSIN FLUX CORED SOLDER WIRE

MSDS Date:01/08/1992

FSC:3439

NIIN:00-824-5463

MSDS Number: BNQCD

=== 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

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Info Phone Num:814-946-1611

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

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

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  
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:SILVER (SARA III)  
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  
CAS:7440-69-9  
RTECS #:EB2600000  
Other REC Limits:NONE SPECIFIED

Ingred Name:INDIUM  
CAS:7440-74-6  
RTECS #:NL1050000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.1 MG/M3; 9192

Ingred Name:ANTIMONY (SARA III)  
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:ROSIN ACID  
CAS:8050-09-7  
Fraction by Wt: 1-4%  
Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:ORAL LD50 (RATS) > 5000 MG/KG.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:Y

ES

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

Health Hazards Acute and Chronic:ACUTE-INHALATION OF FUMES(DURING SOLDERING): IRRITATION OF EYES AND RESPIRATORY TRACT SYSTEM. CHRONIC:LONG AND REPEATED EXPOSURE TO METAL FUMES MAY CAUSE HEADACHE, NAUSEA/VOMITING, ACHING BONES, FATIG UE, DECREASED APPETITE, ABDOMINAL CRAMPING, ANEMIA, BRAIN, HEART, LUNG, LIVER AND KIDNEY DEGENERATIVE CHANGES.

Explanation of Carcinogenicity:LEAD & FORMALDEHYDE ARE LISTED AS PROBAB

LE CARCINOGENS BY NTP,IARC, EPA,& IT IS REGULATED BY OSHA.

Effects of Overexposure:EXPOSURE TO FUMES MAY RESULT IN IRRITATION OF NOSE, THROAT, EYES AND SKIN. BURNS FROM SKIN CONTACT OF MOLTEN SOLDER. WATERY EYES, HEADACHE, BREATHING DIFFICULTY, FREQUENT COUGHING, ANEMIA, INSOMNIA, W EAKNESS, IRRITABILITY, CONSTIPATION MAYOCCUR.

Medical Cond Aggravated by Exposure:SOME WORKERS WITH PRE-EXISTING CONDITIONS OF LUNGS, EYES, SKIN, AND THOSE PREVIOUSLY EXPOSED TO LEAD & ANTMONY MAY BE AT INCREASED RISK.

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

First Aid:SKIN BURNS:FLUSH WITH COLD WATER OR APPLY ICE. IN CASE OF SEVERE BURNS GET MEDICAL HELP. EYE IRRITATION:FLUSH WITH WATER FOR 15 MINUTES. INHALATION:REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. GET MEDICAL HELP. INGESTION:GET MEDICAL HELP.

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

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Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:NONFLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

===== Accidental Release

Measures =====

Spill Release Procedures:CLEAN UP ANY DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSURE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NO SPECIAL REQUIREMENTS FOR STORAGE. WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN SOLDERING.

Other Precautions:DO NOT INHALE FUMES.

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

Respiratory Protection:USE FUME/ORGANIC VAPOR RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN SOLDERING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRATORS.

Ventilation:USE ENOUGH VENTILATION WHEN SOLDERING TO KEEP THE DUST, FUMES & GASES BELOW TLV.

Protective Glove

s:LEATHER GLOVES

Eye Protection:OSHA APPROVED GOGGLES/FACE SHIELD

Other Protective Equipment:FLAME RETARDANT CLOTHING AND LEATHER GLOVES WHEN SOLDERING.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING. NO FOOD, DRINK OR TOBACCO SHOULD BE ALLOWED WHERE CORE SOLDER IS USED.

Supplemental Safety and Health

LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY. DO NOT TAKE INTERNALLY.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

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

Vapor Pres:NOT GIVEN

Vapor Density:NOT GIVEN

Spec Gravity:NOT GIVEN

Evaporation Rate & Reference:NIL

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER GREY WIRE, ODORLESS

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

Stability Indicator/Materials to Avoid:YES  
STRONG ACIDS AND BASES, OXIDIZERS.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products

:TOXIC METAL FUMES ABOVE 886C(1627F).  
FROM THE ROSIN CORE; FORMALDEHYDE, CARBON MONOXIDE & DIOXIDE.

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

Waste Disposal Methods:DISPOSE OF ACCORDING TO FEDERAL, STATE & LOCAL  
REGULATIONS.

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