

FEDERATED-FRY METALS -- SOLDER,TIN ALLOY -- 3439-01-008-7578

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

Product ID:SOLDER,TIN ALLOY

MSDS Date:11/04/1990

FSC:3439

NIIN:01-008-7578

MSDS Number: BJPGB

=== Responsible Party ===

Company Name:FEDERATED-FRY METALS

Address:6YH AVE 7 41ST ST.

City:ALTOONA

State:PA

ZIP:16602

Country:US

Info Phone Num:800-424-9300 CHEMTREC

Emergency Phone Num:814-946-1611

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

=====
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 S

PECIFIED
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

Ingre
d 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 =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE-INHALATI

ON 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, FATIGUE, DECREASED APPETITE, ABDOMINAL CRAMPING, ANEMIA, BRAIN, HEART, LUNG, LIVER AND KIDNEY DEGENERATIVE CHANGES.

Explanation of Carcinogenicity:FORMALDEHYDE IS LISTED AS A PROBABLE CARCINOGEN 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.

Medical Cond Aggravated by Exposure:SOME WORKERS WITH PRE-EXISTING CONDITIONS OF LUNGS, EYES, SKIN, AND THOSE PREVIOUSLY EXPOSED TO LEAD & ANTIMONY 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 =====

Extinguishing Media:DRY CHEMICAL. DO NOT USE WATER.

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.

===== 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

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

Handling and Storage Precautions:NO SPECIAL REQUIREMENTS FOR STORAGE.
WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN SOLDERING.
Other Precautions:NONE

=====
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
W

RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRATORS.

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

Protective Gloves: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.
LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER GREY WIRE

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS. STRONG ACIDS.

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.

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.