

"44" ROSIN FLUX CORED SOLDER

MSDS Number

CLTTY

National Stock Number

3439-00-411-5096

Product Name

"44" ROSIN FLUX CORED SOLDER

Manufacturer

KESTER SOLDER DIV OF LITTON SYSTEMS INC

Product Identification

Product ID:"44" ROSIN FLUX CORED SOLDER

MSDS Date:12/11/1998

FSC:3439

NIIN:00-411-5096

Status Code:A

MSDS Number: CLTTY

Responsible Party

KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC.

515 E. TOUHY AVENUE

DES PLAINES , IL 60018

US

Emergency Phone: (800) 424-9300

Info Phone: 847-297-1600

Preparer: D. BERNIER

Cage: 75297

Contractor

KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC.

DES PLAINES, IL 60018

US

847-297-1600

Cage: 75297

Ingredients

LEAD

CAS: 7439-92-1

RTECS: OF7525000

OSHA PEL.05 MG/M3

ACGIH TLV: 0.15 MG/M3

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

TIN

CAS: 7440-31-5

RTECS: XP7320000

OSHA PEL2 MG/M3
ACGIH TLV: 2 MG/M3

SILVER
CAS: 7440-22-4
RTECS: VW3500000
OSHA PEL0.01 MG/M3
ACGIH TLV: 0.1 MG/M3
EPA Report Quantity: 1 LB
DOT Report Quantity: 1 LB

BISMUTH
CAS: 7440-69-9
RTECS: EB2600000

ANTIMONY
CAS: 7440-36-0
RTECS: CC4025000
OSHA PEL0.5 MG/M3
ACGIH TLV: 0.5 MG/M3
EPA Report Quantity: 5000 LBS
DOT Report Quantity: 5000 LBS

ROSIN
CAS: 8050-09-7
RTECS: VL0480000

Hazards

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES
Reports of Carcinogenicity: NTP: UNKNOWN IARC: UNKNOWN OSHA: YES
Health Hazards Acute and Chronic: ACUTE-INHALATION: FLUX FUMES DURING SOLDERING MAY CAUSE IRRITATION AND DAMAGE OF MUCOUS MEMBRANES AND RESPIRATORY SYSTEM. SKIN: POSSIBLE LOCAL IRRITATION BY CONTACT WITH FLUX OR FUMES. SKIN ABSORPTION : NONE. EYE: IRRITATION FROM CONTACT WITH SMOKE FROM SOLDERING. INGESTION: NOT LIKELY TO OCCUR. CHRONIC EXPOSURE-BREATHING FUMES DURING SOLDERING MAY CAUSE RESPIRATORY SYSTEM IRRITATION, HEADACHE AND IRRITATION OF MUCOUS MEMBRANES. SMOKE DURING SOLDERING WILL CONTAIN ROSIN WHICH IS AN ALLERGEN AND CAN CAUSE RESPIRATORY SYTEM IRRITATION AND DAMAGE. REPEATED INGESTION OF LEAD CAN RESULT IN SYTEMIC P OISONING.
Effects of Overexposure: ACUTE-INHALATION: FLUX FUMES DURING SOLDERING MAY CAUSE IRRITATION AND DAMAGE OF MUCOUS MEMBRANES AND RESPIRATORY SYSTEM. SKIN: POSSIBLE LOCAL IRRITATION BY CONTACT WITH FLUX OR FUMES. SKIN ABSORPTION : NONE. EYE: IRRITATION FROM CONTACT WITH SMOKE FROM SOLDERING. INGESTION: NOT LIKELY TO OCCUR. CHRONIC EXPOSURE-BREATHING FUMES DURING SOLDERING MAY CAUSE RESPIRATORY SYSTEM IRRITATION, HEADACHE AND IRRITATION OF MUCOUS MEMBRANES. SMOKE DURING SOLDERING WILL CONTAIN ROSIN WHICH IS AN ALLERGEN AND CAN CAUSE RESPIRATORY SYTEM IRRITATION AND DAMAGE. REPEATED INGESTION OF LEAD CAN RESULT IN SYTEMIC P OISONING.
Medical Cond Aggravated by Exposure: FLUX: PRE-EXISTING CONDITIONS OF THE LUNGS. LEAD: DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS,

KIDNEYS, NERVES AND POSSIBLY REPRODUCTIVE SYSTEM.

First Aid

First Aid:SEEK MEDICAL ASSISTANCE FOR FURTHER TREATMENT, OBSERVATION AND SUPPORT IF NEEDED. EYE: FOR BURNS FLUSH IMMEDIATELY WITH COOL WATER. FOR FUME IRRITATION USE EYE DROPS AND REMOVE FROM EXPOSURE. SKIN: FOR BURNS FLUSH IMMEDIATELY WITH COOL WATER. IF A RASH DEVELOPS FROM FLUX FUMES, REMOVE PERSON FROM EXPOSURE AND WASH SKIN WITH SOAP AND WATER. INHALATION: REMOVE PERSON FROM EXPOSURE TO FUMES. INGESTION: NA

Fire Fighting

Flash Point Method:TOC
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS IF THIS MATERIAL IS IN THE VICINITY OF A FIRE.
Unusual Fire/Explosion Hazard:FLUX IN CORED SOLDER MAY IGNITE WHEN THE SOLDER MELTS IN A FIRE. MELTED SOLDER MAY LIBERATE CARBON MONOXIDE, CARBON DIOXIDE, LEAD OXIDE FUMES.

Accidental Release

Spill Release Procedures:MELTED SOLDER WILL SOLIDIFY ON COOLING AND CAN BE SCRAPED UP. USE CAUTION TO AVOID BREATHING FUMES IF A GAS TORCH IS USED TO CUT UP LARGE PIECES.

Handling

Handling and Storage Precautions:STORE AWAY FROM SOURCES OF SULFUR. WASH HANDS AFTER HANDLING SOLDER CONTAINING LEAD BEFORE EATING OR SMOKING. AVOID BREATHING SMOKE / FUMES GENERATED DURING SOLDERING. DO NOT PLACE FLUX CORED SOLDER INTO A HOT SOLDER POT BECAUSE THE FLUX MAY IGNITE.
Other Precautions:EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE. OBSERVE ALL LABEL PRECAUTIONS.

Exposure Controls

Respiratory Protection:WHEN VENTILATION IS NOT SUFFICIENT TO REMOVE FUMES FROM THE BREATHING ZONE, A NIOSH APPROVED RESPIRATOR SHOULD BE WORN.
Ventilation:PROVIDE ADEQUATE VENTILATION (GENERAL &/OR LOCAL) IF NECESSARY TO MEET EXPOSURE REQUIREMENTS. LOCAL EXHAUST VENTILATION IS PREFERRED
Protective Gloves:USUALLY NOT REQUIRED
Eye Protection:WHEN SOLDERING, USE GOGGLES OR FACE SHIELD.
Other Protective Equipment:NONE.
Work Hygienic Practices:WASH HANDS THOROUGHLY AFTER HANDLING SOLDER CONTAINING LEAD AND BEFORE EATING AND SMOKING.
Supplemental Safety and Health
PER TIR, THE COMPOSITION OF SOLDER IS: TIN 94%; ANTIMONY 6%; LEAD 0.2%; COPPER 0.08%; ARSENIC 0.05%; ALUMINUM 0.03%; AND OTHER ELEMENTS 0.03%; ZINC 0.03%; CADMIUM 0.001%.

Chemical Properties

HCC:N1
Spec Gravity:>1
Solubility in Water:0
Appearance and Odor:SILVER-GRAY METAL IN WIRE, RIBBON/PREFORMED SHAPES W/ A CORE OF FLUX;ODORLESS

Stability

Stability Indicator/Materials to Avoid:YES
STRONG ACID, STRONG OXIDIZERS.
Stability Condition to Avoid:NONE.
Hazardous Decomposition Products:WHEN HEATED TO SOLDERING TEMPERATURES, THE SOLVENT IN THE FLUX WILL BOIL AWAY & CARRY UP DROPLETS OF ROSIN & THERMAL DEGRADATION PRODUCTS SUCH AS ALIPHATIC ALDEHYDES, ACIDS & TERPENES. NO LEAD IS DETECT
Conditions to Avoid Polymerization:WILL NOT OCCUR.

Disposal

Waste Disposal Methods:SOLDER CAN BE RECLAIMED.

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