

"44" FLUX CORED SOLDER

MSDS Number

BVGTQ

National Stock Number

3439-01-372-0108

Product Name

"44" FLUX CORED SOLDER

Manufacturer

KESTER SOLDER COMPANY DIV OF LITTON SYSTEMS INC

Product Identification

Product ID:"44" FLUX CORED SOLDER

MSDS Date:05/20/1993

FSC:3439

NIIN:01-372-0108

MSDS Number: BVGTQ

Responsible Party

KESTER SOLDER COMPANY DIV OF LITTON SYSTEMS INC

515 E TOUHY

DES PLAINES , IL 60018-2675

US

Emergency Phone: 800-424-9300(CHEMTREC)

Info Phone: 708-297-1600

Preparer: D. BERNIER

Cage: 09185

Contractor

KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC.

DES PLAINES, IL 60018

US

847-297-1600

Cage: 75297

Ingredients

LEAD (SARA III)

CAS: 7439-92-1

RTECS: OF7525000

Fraction By Weight: 39.65%

OSHA PELSEE 1910.1025

ACGIH TLV: 0.15 MG/M3,DUST;9394

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

TIN

CAS: 7440-31-5

RTECS: XP7320000

Fraction By Weight: 60%
OSHA PEL2 MG/M3
ACGIH TLV: 2 MG/M3; 9394

SILVER (SARA III)
CAS: 7440-22-4
RTECS: VW3500000
Fraction By Weight: SEE #8%
OSHA PEL0.01 MG/M3
ACGIH TLV: 0.1 MG/M3; 9394
EPA Report Quantity: 1 LB
DOT Report Quantity: 1 LB

BISMUTH
CAS: 7440-69-9
RTECS: EB2600000
Fraction By Weight: SEE #8%

ANTIMONY (SARA III)
CAS: 7440-36-0
RTECS: CC4025000
Fraction By Weight: 0.35%
OSHA PEL0.5 MG/M3
ACGIH TLV: 0.5 MG (SB)/M3; 9394
EPA Report Quantity: 5000 LBS
DOT Report Quantity: 5000 LBS

ROSIN
CAS: 8050-09-7
Fraction By Weight:
FLUX CORE
Fraction By Weight: 1-3%

COMPOSITION & WT % OF SOLDER ALLOYS VARIES WIDELY AND CAN
RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture:NOT ESTIMATED.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:PRIMARY EXPOSURE DURING SOLDERING IS
TO EVAPORATED SOLVENT WHICH MAY HAVE DROPLETS OF ROSIN &/OR OTHER
ORG DECOMP PRODUCTS.INHAL:FLUX FUMES DURING SOLDERING MAY CAUSE
IRRIT & DAMAGE OF MUC MEM & RESP SYS. SKIN:POSSIBLE LOCAL IRRIT
W/FLUX/FUMES CONTACT. EYE:IRRIT. INGEST:NOT LIKELY TO OCCUR.
Explanation of Carcinogenicity:PER MSDS:IF CONTAINS LEAD:CLASS B2 BY

USEPA & IARC;LEAD IS KNOWN BY STATE OF CA TO CAUSE CANCER,BIRTH DEFECTS,REPRO HARM
Effects of Overexposure:BREATHING FUMES DURING SOLDERING MAY CAUSE RESP IRRIT, HEADACHE & IRRIT OF MUC MEMBRANES. REPEATED INGESTION OF LEAD CAN RESULT IN SYSTEMIC POISONING.
Medical Cond Aggravated by Exposure:PRE-EXISTING CONDITIONS OF LUNGS,DISEASES OF THE BLOOD & BLOOD FORMING ORGANS,KIDNEYS,NERVES & POSSIBLE REPRODUCTIVE SYS. TARORG:EYES/MUC MEM/RESP SYS.
INGEST:KIDNEYS/GI/REPROD & NEUROLOGICAL SYS.

First Aid

First Aid:SEEK MED ASSISTANCE FOR FURTHER TREATMENT, OBSERVATION & SUPPORT IF NEEDED. EYE:FOR BURNS FLUSH IMMED W/COOL WATER. IRRIT FROM FUMES USE EYE DROPS & REMOVE FROM EXPOSURE. SKIN:FOR BURNS FLUSH IMMED W/ COOL WATER. IF RASH DEVELOPS FROM FLUX FUMES REMOVE FROM EXPOUSRE & WASH SKIN W/SOAP & WATER. INHAL:REMOVE PERSON FROM EXPOSURE TO FUMES. INGEST:N/A.

Fire Fighting

Extinguishing Media:NONE SPECIFIED BY MFG, THEREFORE USE APPROPRIATE EXTINGUISHING MEDIA FOR SURROUNDING FIRE.
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.

Accidental Release

Spill Release Procedures:MELTED SOLDER WILL SOLIDIFY ON COOLING THEN SCRAPED UP.USE CAUTION:AVOID BREATH FUMES IF GAS TORCH IS USED TO CUT UP LG PIECES.(WHEN REQUIRED FLUX RESIDUE CAN BE REMOVED W/ANY KESTER VAP DEGREASING SL VT,ROSIN RESIDUE REMOVER,OR BIOKLEEN AQSAPONIFIER
Neutralizing Agent:NONE SPECIFIED BY MFG.

Handling

Handling and Storage Precautions:STORE AWAY FROM SOURCES OF SULFUR.DO NOT PLACE FLUX CORED SOLDER INTO HOT SOLDER POT BECAUSE FLUX MAY IGNITE.AVOID BREATH SMOKE/FUME DURING SOLDERING.
Other Precautions:EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE. OBSERVE ALL LABEL PRECAUTIONS. KESTER 44 ROSIN FLUX IS AN ACTIVATED ROSIN FORMULA FOR USE IN FLUXCORED SOLDER WIRE. FLUX RESIDUE IS NONCORR & NONCONDUCTIV E UNDER NORMAL CONDITIONS OF USE.

Exposure Controls

Respiratory Protection:USUALLY NOT REQUIRED. WHEN VENTILATION IS NOT SUFFICIENT TO REMOVE FUMES FROM BREATHING ZONE A CARTRIDGE TYPE RESPIRATOR SHOULD BE WORN.
Ventilation:PROVIDE ADEQUATE EXHAUST VENTILATION (GENERAL &/OR LOCAL) TO MEET TLV REQUIREMENTS.
Protective Gloves:USUALLY NOT REQUIRED.
Eye Protection:WHEN SOLDERING USE GOGGLES OR FACESHIELD
Other Protective Equipment:NONE.
Work Hygienic Practices:WASH HANDS THOROUGHLY AFTER HANDLING SOLDER CONTAINING LEAD BEFORE EATING OR SMOKING.
Supplemental Safety and Health
HAZ PROD CONTD:THERM DEGRADATION PRODUCTS SUCH AS ALIPHATIC ALDEHYDES,ACIDS,TERPENES.NO LEAD IS DETECTED IN FUMES FROM SOLDERING BELOW 1000F(537C).MELTED SOLDER MAY LIBERATE CO,CO2,LEAD OXIDE FUMES. P ER MSDS:COMPOSITION & WT % OF SOLDER ALLOYS VARIES WIDELY & CAN BE DETERMINED BY PRODUCT LABEL.FLUX COR TYPICALLY 1-3%WT

Chemical Properties

HCC:N1
Spec Gravity:>1 H2O=1 @25C
Solubility in Water:0
Appearance and Odor:SILVER-GRAY METAL IN BAR, WIRE, RIBBON OR PREFORMED

SHAPES.

Stability

Stability Indicator/Materials to Avoid: YES

STRONG ACIDS, STRONG OXIDIZERS.

Stability Condition to Avoid: NONE.

Hazardous Decomposition Products: WHEN HEATED TO SOLDERING TEMPS SOLVENT
IN FLUX BOILS AWAY & CARRIES UP DROPLETS OF ROSIN & (CONTD
W/SUPPLEMENTAL).

Disposal

Waste Disposal Methods: SOLDER CAN BE RECLAIMED.

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