



Chemical Name: General purpose Aluminum Soldering Flux

Manufacturer: Engelhard

Container size: 4oz.

Location: VLA

Disposal: Place empty container in trash.

ENGELHARD CORP

-- GENERAL PURPOSE, PASTE SOLDERING FLUX, GPL-FL

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MSDS Safety Information
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FSC: 3439

MSDS Date: 02/25/1993

MSDS Num: BWFTW

LIIN: 00N056136

Product ID: GENERAL PURPOSE, PASTE SOLDERING FLUX, GPL-FLUX

MFN: 01

Responsible Party

Cage: ENGEL

Name: ENGELHARD CORP

Address: 235 KILVERT ST

City: WARWICK RI 02886

Info Phone Number: 401-739-9550

Emergency Phone Number: 800-424-9300 (CHEMTREC)

Published: Y
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Contractor Summary
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Cage: 86337

Name: ENGELHARD CORP

Address: 235 KILVERT ST

City: WARWICK RI 02886

Phone: 401-739-9550

Cage: ENGEL

Name: ENGELHARD CORP

Address: 29001 SOLON RD

City: SOLON OH 44139

Phone: 216-292-9200
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Ingredients
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Cas: 8009-03-8

RTECS #: SE6780000

Name: PETROLATUM

% Wt: 70.8

OSHA PEL: 2 MG/M3 (MFR)

ACGIH TLV: 2 MG/M3 (MFR)

Cas: 7646-85-7

RTECS #: ZH1400000

Name: ZINC CHLORIDE (SARA 313) (CERCLA)

% Wt: 25.3

OSHA PEL: 1 MG/M3

ACGIH TLV: 1MG/M3/2 STEL (FUME)

EPA Rpt Qty: 1000 LBS

DOT Rpt Qty: 1000 LBS

Name: SUPDAT:DISP OF MATL SHOULD BE I/A/W DISPOSAL CONSIDERATIONS.

Name: WASTE DISP METH:PART 261 ET SEQ. DISP/RECYCLING/RECLAMATION
REQUIREMENTS

WILL VARY BY LOCATION & TYPES OF DISP

Name: ING 4:SELECTED. CONSULT W/STATE, FEDERAL AND LOCAL REGULATORY AUTH.

NOTE:CHEM ADDNS, PROCESSING/OTHERWISE

Name: ING 5:ALTERING THIS MATL MAY MAKE WASTE MANAGEMENT INFO PRESENTED ABOVE
INCOMPLETE, INACCURATE/OTHERWISE

Name: ING 6:INAPPROP. AS LOCAL REGS MAY VARY; ALL WASTE MUST BE
DISP/RECYCLED/RECLAIMED I/Q/W FED, ST, & LOC ENVIRON

Name: ING 7:CONTROL REGULATIONS.

Name: EYE PROT:& FULL LENGTH FACESHIELD (FP N).

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Health Hazards Data

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LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: ACUTE:EYE:CAUSES IRRITATION & MAY CAUSE BURNS.

SKIN:CAUSES IRRITATION & MAY CAUSE BURNS. SENSITIZATION & ALLERGIC
REACTIONS ARE POSSIBLE. INHALATION OF MISTS IS SEVERELY IRRITATING TO
RESPIRATORY TRACT & CAN CAUSE BURNING SENSATION, COUGHING, WHEEZING,
BRONCHITIS, PNEUMONITIS & PULMONARY EDEMA. MAY (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: NOT RELEVANT.

Signs And Symptoms Of Overexposure: HLTH HAZ:CAUSE ALLERGIC RESPIRATORY
REACTIONS. INGESTION IS HARMFUL. CAN CAUSE SEVERE IRRITATION & POSSIBLE
BURNS TO MUCOUS MEMBRANES. MAY CAUSE SEVERE ABDOMINAL PAIN, VOMITING &
DIARRHEA. CHRONIC:PROLONGED/REPEATED OVEREXPOSURE MAY CAUSE LUNG DAMAGE.
OVEREXPOSURE MAY CAUSE DELAYED KIDNEY INJURY.

Medical Cond Aggravated By Exposure: MAY AGGRAVATE EXISTING RESPIRATORY
AND/OR SKIN AILMENTS.

First Aid: EYE:IMMED FLUSH W/PLENTY OF WATER FOR @ LEAST 30 MINS. HOLD
EYELIDS OPEN DURING THIS FLUSHING W/WATER. CALL PHYS IMMED. SKIN:FLUSH
W/PLENTY OF WATER. IF IRRIT PERSISTS, CALL PHYS. INHAL:REMOVE TO FRESH AIR.
IF NOT BRTHG,GIVE ARTF RESP, PRE F MOUTH-TO-MOUTH. IF BRTHG IS DFCLT, GIVE
OXYG. CALL PHYS. INGEST:IF SWALLOWED, DO NOT INDUCE VOMIT. GIVE LG QTYS OF
WATER. CALL PHYS IMMED. NEVER (SUPDAT)

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Handling and Disposal

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Spill Release Procedures: CONTAIN SPILLAGE & SCOOP UP/VACUUM. NOTIFICATION
OF NATL RESPONSE CENTER (800/424-8802) MAY BE REQD. REFER TO EPA, DOT &
APPLIC ST & LOCAL REGS FOR CURRENT RESPONSE INFO. IT IS REC THAT EACH
USER ESTABLISH SPILL PREVENTION, CONTROL & (SUPDAT)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: EPA WASTE #:D002. THIS PROD MAY BE HAZ WASTE UNDER
EPA WASTE REGS (SEE EPA WASTE ABOVE). BEFORE DISP, THIS PROD/MIX CONTAINING
THIS PROD SHOULD BE TESTED FOR TOX CHARACTS (TC) UNDER CURRENT EPA HAZ
WASTE REGS TCLP TESTING PROCEDURES, 40 CFR

Handling And Storage Precautions: KEEP AWAY FROM FOOD & FEED PRODS. STORE
IN TIGHTLY CLSD CNTNR. STORE IN COOL, DRY LOCATION AWAY FROM INCOMPATIBLE
MATLS.

Other Precautions: AVOID CONT W/ANY DUSTS, MISTS/FUMES RSLTG FROM USE OFTHIS
PROD. WASH CONTAMD CLTHG BEFORE REUSE. PROVIDE SFTY SHOWER & EYE

WASHCLOSE TO WHERE THIS MATL IS BEING USED.

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Fire and Explosion Hazard Information
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Flash Point Text: >356F,>180C
Extinguishing Media: USE WATER, CARBON DIOXIDE OR FOAM.
Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N).
Unusual Fire/Explosion Hazard: NOT A FIRE OR EXPLOSION HAZARD. HOWEVER, TOXIC EMISSIONS ARE POSSIBLE IN A FIRE SITUATION.

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Control Measures
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Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).
Ventilation: GENERAL, LOC EXHAUST VENT AS NEC TO CONTROL ANY AIR CONTAMINANTS TO W/IN THEIR TLVS DURING USE OF THIS PRODUCT.
Protective Gloves: RUBBER/NEOPRENE GLOVES.
Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS
Other Protective Equipment: BODY PROTECTION AS NEC TO PVNT SKIN CONT. EMERGENCY EYEWASH & DELUGE SHOWER WHICH MEET ANSI DESIGN STANDARDS (FP N).
Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.
Supplemental Safety and Health: FIRST AID PROC:GIVE ANYTHING BY MOUTH TO UNCON PESON. SPILL RELEASE:COUNTERMEASURE PLAN (SPCC). SUCH PLAN SHOULD INCL PROCEDURES REUSE/DISP AS APPROP. NOTE:IN EVENT OF AN ACCIDENTAL RELEASE OF THIS MATL, ABOVE PROCEDURES SHOULD BE FOLLOWED. ADDNLY PROPER EXPOS CONTROLS & PERSONAL PROT EQUIP SHOULD BE USED &

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Physical/Chemical Properties
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B.P. Text: 165F,74C
M.P/F.P Text: 216F,102C
Vapor Pres: <10 @ 20C
Spec Gravity: 1.4 (H*20=1)
PH: 1.8
Evaporation Rate & Reference: NOT KNOWN
Solubility in Water: INSOLUBLE
Appearance and Odor: AMBER JELLY; ODORLESS

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Reactivity Data
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Stability Indicator: YES
Stability Condition To Avoid: NONE EXPECTED.
Materials To Avoid: ALKALIES, OXIDIZERS.
Hazardous Decomposition Products: HYDROGEN CHLORIDE, ZINC OXIDE AND OXIDES OF CARBON.
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: NOT RELEVANT.

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Toxicological Information
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Ecological Information
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MSDS Transport Information

Regulatory Information

Other Information

HAZCOM Label

Product ID: GENERAL PURPOSE, PASTE SOLDERING FLUX, GPL-FLUX

Cage: ENGEL

Assigned IND: Y

Company Name: ENGELHARD CORP

Street: 29001 SOLON RD

City: SOLON OH

Zipcode: 44139

Health Emergency Phone: 800-424-9300 (CHEMTREC)

Label Required IND: Y

Date Of Label Review: 12/30/1994

Status Code: C

Label Date: 12/30/1994

Origination Code: G

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: DANGER

Respiratory Protection IND: YES

Health Hazard: Moderate

Contact Hazard: Severe

Fire Hazard: Slight

Reactivity Hazard: None

Hazard And Precautions: COMBUSTIBLE. ACUTE:EYE:CAUSES IRRITATION & MAY CAUSE BURNS. SKIN:CAUSES IRRITATION & MAY CAUSE BURNS. SENSITIZATION & ALLERGIC REACTIONS ARE POSSIBLE. INHALATION OF MISTS IS SEVERELY IRRITATING TO RESPIRATORY TRACT & CAN CAUSE BURNING SENSATION, COUGHING, WHEEZING, BRONCHITIS, PNEUMONITIS & PULMONARY EDEMA. MAY CAUSE ALLERGIC RESP REACTIONS. INGEST:HARMFUL. CAN CAUSE SEVERE IRRITATION & POSSIBLE BURNS TO MUCOUS MEMBRANES, SEVERE ABDOMINAL PAIN, VOMITING, DIARRHEA. CHRONIC:LUNG & KIDNEY DAMAGE.

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