LITTON KESTER SOLDER

-- AP-20 CLEANING SOLUTION

MSDS Safety Information

FSC: 6850

MSDS Date: 05/19/1997

MSDS Num: CHZXQ LIIN: 00F056914

Product ID: AP-20 CLEANING SOLUTION

MFN: 01

Responsible Party

Cage: G0157

Name: LITTON KESTER SOLDER Address: 515 EAST TOUHY AVENUE City: DES PLAINES IL 60018-2675 Info Phone Number: 708-297-1600

Emergency Phone Number: 708-297-1600

Preparer's Name: D BERNIER

Review Ind: Y Published: Y

Preparer Co. when other than Responsible Party Co.

Cage: GO157 Assigned Ind: Y

Name: LITTON KESTER SOLDER Address: 515 EAST TOUHY AVENUE City: DES PLAINES IL 60018-2675

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Contractor Summary

Cage: 75297

Name: KESTER SOLDER DIVISION OF LITTON SYSTEMS, INC.

Address: 515 E. TOUHY AVENUE City: DES PLAINES IL 60018

Phone: 847-297-1600

Cage: GO157

Name: LITTON KESTER SOLDER Address: 515 EAST TOUHY AVENUE City: DES PLAINES IL 60018-2675

Phone: (708) 297-1600

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Ingredients

Cas: 127-18-4

RTECS #: KX3850000

Name: PERCHLOROETHYLENE (TETRACHLOROETHYLENE) (SUSPECTED ANIMAL CARC B

& IARC - GROUP 2A; CARC BY NTP) \*98-3\*

8 Wt: 80

Other REC Limits: 50 PPM

OSHA PEL: 50 PPM ACGIH TLV: 50 PPM EPA Rpt Qty: 100 LBS DOT Rpt Qty: 100 LBS

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Cas: 628-63-7

RTECS #: AJ1925000 Name: AMYL ACETATE

% Wt: 19

Other REC Limits: 530 PPM

OSHA PEL: 100 PPM ACGIH TLV: 100 PPM EPA Rpt Qty: 5000 LBS DOT Rpt Qty: 5000 LBS

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RTECS #: 9999999VO

Name: VOLATILE ORGANIC CONTENT: 1470 G/L

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Health Hazards Data

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds - NTP: YES

IARC: YES OSHA: NO

Effects of Exposure: INHALATION: LOCAL IRRITANT TO EYES, NOSE & RESPIR TRACT. SKIN: SLIGHT IRRITANT. EYES: SEVERE IRRITATION. INGESTION: HA MAY CAUSE CNS DEPRESSION & IRRITATION TO UPPER DIGESTIVE TRACT. SEVE EXPOSURE MAY CAUSE CARDIAC FAILURE & MAY DAMAGE LIVER & KIDNEYS. MA AFFECT CENTRAL NERVOUS SYSTEM. DERMATITIS.

Explanation Of Carcinogenicity: SEE INGREDIENTS.

Signs And Symptions Of Overexposure: DIZZINESS, NARCOSIS, IRRITATION, GIDDINESS, HEADACHE, NAUSEA, DEFATTING/DRYING OF SKIN, INFLAMMATION

First Aid: EYES: FLUSH W/PLENTY OF WATER. SKIN: WASH W/SOAP & WATER. REPLACE MOISTURE W/HAND LOTION. INHALATION: REMOVE TO FRESH AIR. PRO OXYGEN IF BREATHING IS DIFFICULT. INGESTION: INDUCE VOMITING. KEEP V HEAD BELOW HIPS TO PREVENT ASPIRATION INTO LUNGS. OBTAIN MEDICAL ATT ALL CASES.

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#### Handling and Disposal

Spill Release Procedures: CONTAIN TO SMALLEST POSSIBLE AREA. ABSORB W/DIATOMACEOUS EARTH/OTHER INERT MATERIAL & DISPOSE. AVOID BREATHING VAPORS. REMOVE SOAKED CLOTHING.

Waste Disposal Methods: INCINERATE/DISPOSE OF IN ACCORDANCE W/LOCAL, S & FEDERAL REGULATIONS. UN1897.

Handling And Storage Precautions: KEEP CONTAINER SEALED WHEN NOT IN US STORE AT TEMPS EXCEEDING 90F. OPEN CONTAINERS CAUTIOUSLY TO ALLOW VE ANY INTERNAL PRESSURE.

Other Precautions: DON'T USE A CUTTING TORCH ON CONTAINERS EVEN EMPTY RESIDUAL MAY EXPLODE. AVOID BREATHING VAPORS. AVOID SKIN & EYE CONTA OBSERVE ALL LABEL PRECAUTIONS.

Fire and Explosion Hazard Information

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Flash Point Text: NONE

Fire Fighting Procedures: USE WATER SPRAY TO COOL FIRE EXPOSED CONTAIN TO CONTROL VAPORS. WEAR A SELF CONTAINED BREATHING APPARATUS IF THIS IS IN THE VICINITY OF A FIRE.

Unusual Fire/Explosion Hazard: SEALED CONTAINERS COULD EXPLODE DURING RESULTING IN HIGHLY TOXIC FUMES.

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Control Measures

Respiratory Protection: AS REQUIRED TO MEET TLV REQUIREMENTS. FOR HIGH CONCENTRATIONS, USE ORGANIC CARTRIDGE RESPIRATOR/SELF CONTAINED BREA APPARATUS.

Ventilation: GENERAL/LOCAL TO MEET EXPOSURE REQUIREMENTS. LOCAL EXHAUS MINIMIZE DISPERSION OF SMOKE/FUMES INTO THE WORK AREA.

Protective Gloves: NEOPRENE

Eye Protection: CHEMICAL GOGGLES

Other Protective Equipment: IMPERMEABLE APRON Work Hygienic Practices: REMOVE SOAKED CLOTHING.

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Physical/Chemical Properties

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B.P. Text: 245F Vapor Pres: 12 Vapor Density: 6.3 Spec Gravity: 1.48

Evaporation Rate & Reference: (BUTYL ACETATE=1): 1.8

Solubility in Water: INSOLUBLE

Appearance and Odor: COLORLESS LIQUID W/CHARACTERISTIC ODOR

Percent Volatiles by Volume: 100

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Reactivity Data

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Stability Indicator: YES

Stability Condition To Avoid: FIRE/FLAME

Materials To Avoid: STRONG OXIDIZING AGENTS, ALKALINE FUMES/ALKALI MET Hazardous Decomposition Products: PHOSGENE GAS & HYDROCHLORIC ACID, CO

Hazardous Polymerization Indicator: NO

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Toxicological Information

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Ecological Information

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MSDS Transport Information

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Regulatory Information

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Other Information

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HAZCOM Label

Product ID: AP-20 CLEANING SOLUTION

Cage: GO157 Assigned IND: Y

Company Name: LITTON KESTER SOLDER

Street: 515 EAST TOUHY AVENUE

City: DES PLAINES IL Zipcode: 60018-2675

Health Emergency Phone: 708-297-1600

Label Required IND: Y

Date Of Label Review: 10/12/1999

Status Code: A

Origination Code: G

Hazard And Precautions: INHALATION: LOCAL IRRITANT TO EYES, NOSE & RESPIRATORY TRACT. SKIN: SLIGHT IRRITANT. EYES: SEVERE IRRITATION. I HARMFUL. MAY CAUSE CNS DEPRESSION & IRRITATION TO UPPER DIGESTIVE TR SEVERE EXPOSURE MAY CAUSE CARDIAC FAILURE & MAY DAMAGE LIVER & KIDNEYS. MAY AFFECT CENTRAL NERVOUS SYSTEM. DERMATITIS.

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# TECHNICAL SPECIFICATION SHEET

J.W. HARRIS CO., INC. 4501 QUALITY PLACE MASON, OHIO 45040 TEL. (513) 754-2000 FAX, (513) 754-8778 www.jwharris.com

> ISO 9002 Cert. No. 31598

# **ALSOLDER® 500 ALUMINUM SOLDER**

WARNING: PROTECT yourself and others. Read and understand this information. FUMES AND GASES can be hazardous to your health.

HEAT RAYS (INFRARED RADIATION) from flame or hot metal can injure eyes.

- Before use, read and understand the manufacturer's instructions, Material Safety Data Sheet (MSDSs), and your employer's safety practices.
- Keep your head out of fumes.
- Use enough ventilation, exhaust at the flame, or both, to keep fumes and gases from your breathing zone and the general area.
- · Wear correct eye, ear, and body protection.
- See American National Standard Z49.1, Safety in Welding, Cutting, and Allied Processes, published by the American Welding Society, 550 N.W. LeJeune Road, Miami, Florida 33126; OSHA Safety and Health Standards, available from the U.S. Government Office, Washington, DC 20402

#### STATEMENT OF LIABILITY — DISCLAIMER

Any suggestion of product applications or results is given without representation or warranty, either expressed or implied. '/ithout exception or limitation, there are no warranties of merchantability or of fitness for particular purpose or application. The user must fully evaluate every process and application in all aspects, including suitability, compliance with applicable law and non-infringement of the rights of others. J.W. Harris Co., Inc. and its affiliates shall have no liability in respect thereof.

## NOMINAL COMPOSITION:

Tin 85% Zinc 15%

## **PHYSICAL PROPERTIES:**

Solidus 391°F (199°C) Liquidus 482°F (248°C) Elongation in 2" 50%

Tensile Strength Up to 20,000 psi (Cu to Cu)

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# ALSOLDER® 500 ALUMINUM SOLDER

### **SOLDERING PROPERTIES:**

An intermediate temperature alloy useful for soldering aluminum to itself and other metals (not recommended for magnesium). Frequently used for repair of aluminum evaporators and soldering aluminum to copper tubing. When joining aluminum to dissimilar metals, the possibility of electrolytic corrosion must be considered. ALSOLDER 500 is also suited to repair zinc die cast alloys.

## **AVAILABLE FORMS:**

Standard wire diameters
Preformed Rings
Kits 1-oz of each solder & flux

### SPECIFICATION COMPLIANCE:

J.W. Harris Internal

## RECOMMENDED FLUX:

Stay Clean Aluminum Flux Stay Clean Flux on other metals

J.W. Harris Co., Inc. Fax 513-754-8778 4501 Quality Place Tel. 513-754-2000 Mason, Ohio 45040 800-733-4533

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