CHEMTRONICS®Technical Data Sheet

Flux-Off[®] Lead-Free Flux Remover

PRODUCT DESCRIPTION

Flux-Off[®] Lead-Free Flux Remover is an extra strength solvent that removes heavy and encrusted flux deposits resulting from high temperature lead-free soldering applications. This powerful cleaner quickly removes all types of flux, oxide particles, dust, grease and oil, and then evaporates quickly leaving no residues.

- Removes R, RA, RMA, and No Clean fluxes in lead-free and Tin/Lead applications
- Non-corrosive, safe for metals
- Flammable
- Extra-strength, fast drying
- Removes encrusted, baked-on fluxes
- All-Way Spray valve even sprays upside down
- Available with BrushCleanTM System
- RoHS compliant

TYPICAL APPLICATIONS

Flux-Off[®] Lead-Free Flux Remover effectively cleans flux residues from:

- Chip Carriers
- Heat Sinks
- Metal Housings and Chassis
- Printed Circuit Boards
- Plugs
- Relays and Contacts
- Sockets
- Surface Mount Device Pads
- Solenoids
- Switches

TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

Flash Point	-20°F
Evaporation Rate	>1
(butyl acetate=1)	
Specific Gravity	0.706
Appearance	Clear, Colorless Liquid
Odor	Ethereal
Solubility in Wate	er Negligible
Kauri-Butanol	86
(KB) Number	
Shelflife	5 years
RoHS/WEEE	ROHS
Status	Compliant

COMPATIBILITY

Flux-Off[®] Lead-Free Flux Remover, like any cleaner, should be tested on a non-critical area to determine plastics compatibility prior to use. Not recommended for ABS, acrylics, polycarbonates, polystyrenes and PVC.

TDS # 1697

<u>Material</u>	Compatibility
ABS	Non-Compatible
Buna-N	Non-Compatible
EPDM	Excellent
Graphite	Excellent
HDPE	Excellent
LDPE	Good
Lexan TM	Non-Compatible
Neoprene	Fair
Noryl [®]	Non-Compatible
Nylon [™] 66	Excellent
Cross-Linked PE	Excellent
Polypropylene	Excellent
Polystyrene	Non-Compatible
PVC	Non-Compatible
Silicone Rubber	Non-Compatible
Teflon TM	Excellent
Viton TM	Non-Compatible

USAGE INSTRUCTIONS

For industrial use only. Read MSDS carefully prior to use. Spray 4-6" from surface to clean. Wash parts from top to bottom, allowing the liquid to flush away flux residue.

Flux-Off[®] Lead-Free Flux Remover can be used to remove all types of fluxes in batch cleaning applications, including ultrasonic systems specifically rated for use with flammable solvents.

AVAILABILITY

ES1697	12 oz. Aerosol
ES897B	8 oz. BrushClean [™] System
ES197	1 Gal. (3.7 L) Liquid

ENVIRONMENTAL IMPACT DATA

ENVIRONN	IENTAL I	MPACT D	ATA
CFC	0.0%	VOC	51%
HCFC-141b	0.0%	HFC	0.0%
HCFC-225	0.0%	nPB	0.0%

CFC, HCFC-225, HCFC-141b, VOC, HFC, and nPB percentages shown are the content by weight.

NOTE:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. ITW CHEMTRONICS[®] does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

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SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Information: 800-TECH-401

Product Identification

	FLUX-OFF® LEAD-FREE	
Product Code: ES1697, ES897B		
SECTION 2: COMPOSITION/INFORMATION ON	INGREDIENTS	
Chemical Name	CAS No.	Wt. % Range
Isohexane, a mixture of:		
2-methylpentane	107-83-5	10.0-25.0
3-methylpentane	96-14-0	1.0-20.0
2,3-Dimethylbutane	79-29-8	1.0-20.0
2,2-Dimethylbutane	75-83-2	1.0-20.0
n-hexane	110-54-3	0.1-2.0
Acetone	67-64-1	20.0-50.0
Carbon dioxide	124-38-9	1.0-10.0
Methanol	67-56-1	1.0-2.0

SECTION 3: HAZARD IDENTIFICATION

<u>Emergency Overview:</u>Clear, colorless liquid with mild hydrocarbon solvent. This product is extremely flammable. Liquid may irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product may produce drowsiness and a headache. <u>Potential Health Effects:</u>

Eyes: Liquid, aerosols and vapors of this product may be irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation.

Skin: Contact may cause skin irritation.

Ingestion: Harmful if swallowed. Irritating to the mouth, throat and stomach. May cause vomiting. Inhalation: Harmful if inhaled. High concentrations in immediate area can displace oxygen and cause dizziness, unconsciousness and even death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus. Pre-Existing Medical Conditions Aggravated by Exposure: Heart, lung, skin, eye.

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel if irritation develops or persists.

Skin: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Ingestion: If swallowed, do not induce vomiting. Keep head below knees to minimize chance of aspirating material into the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: -20 F (-29C) (isohexane) <u>LEL/UEL:</u> 1.2/7.7 (% by volume in air)

Extinguishing Media: Use alcohol foam, carbon dioxide or water spray when fighting fires involving this material. Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure demand, MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Large Spills: Shut off leak if possible and safe to do so. Wear self-contained breathing apparatus and appropriate personal protective equipment. Absorb spill with inert material (i.e. dry sand or earth), then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches that lead to waterways. <u>Small Spills</u>: Absorb spill with inert material (i.e. dry sand or earth), then place in a chemical waste container for earth), then place in a chemical waste container for proper disposal.

SECTION 7: HANDLING AND STORAGE

Avoid prolonged or repeated contact with skin, eyes or clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor. Do not reuse this container. Store in a cool dry place, away from heat, sparks or flames. Do not store in direct sunlight.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION			
Exposure Guidelines:			
CHEMICAL NAME	ACGIH TLV	OSHA PEL	ACGIH STEL
2-methylpentane	500 ppm	NA	1000 ppm
3-methylpentane	500 ppm	NA	1000 ppm
2,3-Dimethylbutane	500 ppm	NA	1000 ppm
2,2-Dimethylbutane	500 ppm	NA	1000 ppm
n-hexane	50 ppm	500 ppm	NA
Acetone	500 ppm	1000 ppm	750 ppm
Methanol	200 ppm	200 ppm	

<u>Work/Hygienic Practices:</u> Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. If vapor concentration exceeds TLV, use NIOSH approved organic vapor cartridge respirator. Wear safety glasses with side shields (or goggles) and rubber or other chemically resistant gloves when handling this material.

TW CHEMTRON	ICS								MSDS #1697
FPA and HMIS Co	des:			NFPA			HMIS		
ealth				1			1		
ammability				3			3		
eactivity				1			1		
ersonal Protection				-			В		
ECTION 9: PHYS	SICAL AND CHEMIC	AL PROPERTIE	S						
vsical State: Clear			~			Solubility in Water	: Negligible		
dor: Mild hydroca						Specific Gravity: 0			
I: NA]	Evaporation Rate:	>1 (Butyl	acetate=1)	
apor Pressure: 214	mm Hg @ 68 F (liquid))]	Percent Volatile: 1	00		
apor Density: 3 (iso	ohexanes) (Air 1)					Boiling Point: 122	2 F (50C)		
ECTION 10: STA	BILITY AND REACT	TIVITY							
ability: This produc	et is stable. Condition	s to Avoid: Do not	t spray near	open flames	s, red hot surfa	ces or other source	es of ignition		
compatibility; Do	not mix powdered alkal	li and alkaline earth	n metals or s	strong oxidiz	zing agents.				
	osition: Thermal decom			nonoxide, car	bon dioxide a	nd incompletely bu	rned hydroc	arbons.	
zardous Polymeriz	ation: Will not occur.	Conditions to avoid	d: NA						
CTION 11: TOX	AICOLOGICAL INFO	RMATION							
nalation:					Ingestion:				
etone	LC50 rats	50,100 mg/m3/8	Bhr		acetone		D50	5800 mg/kg	
ethanol	LC50 rats	64,000ppm/4hr			methanol	LI	D50 rats	5,628 mg/k	g
<u>in:</u>					Eyes:	-			
etone	Rabbit	MLD			acetone) mg/rabbit	SEV	
ethanol	20mg/24 hr No ingredients listed as	MLD	a ha NTD a	TADC	methanol	40) mg/rabbit	MOD	
eproductive effects	U	Teratogenic effects		of IAKC		Mutagenic effects:			
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To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.