

LPS LABORATORIES,INC. -- CFC-FREE ELECTRO CONTACT CLEANER,03105

=====  
MSDS Safety Information  
=====

FSC: 6850  
NIIN: 01-412-0044  
MSDS Date: 11/07/1996  
MSDS Num: BYFHG  
Product ID: CFC-FREE ELECTRO CONTACT CLEANER,03105  
MFN: 01  
Responsible Party  
Cage: 66724  
Name: LPS LABORATORIES,INC.  
Address: 4647 HUGH HOWELL ROAD  
City:  
TUCKER GA 30084-5096  
Info Phone Number: 770-934-7800  
Emergency Phone Number: 770-934-7800/800-424-9300(CHEMTREC)  
Resp. Party Other MSDS No.: P/N 03116,03101,03105,03155

=====  
Item Description Information  
=====

Item Manager: S9G  
Item Name: CLEANING COMPOUND,SOLVENT  
Specification Number: NONE  
Type/Grade/Class: NONE  
Unit of Issue: CN  
Quantitative Expression: 00000000005GL  
UI Container Qty: 0  
Type of Container: CAN

=====  
Ingredients  
=====

Cas: 107-83-5  
RTECS #: SA2995000  
Name: ISOHEXANE  
% low Wt: 70.  
% high Wt: 90.  
Other REC Limits: 1000 PPM STEL  
OSHA PEL: 500 PPM  
ACGIH TLV: 500 PPM

-----  
Cas: 67-63-0  
RTECS #: NT8050000  
Name: ISOPROPYL ALCOHOL (SARA 313)  
% low Wt: 5.  
% high Wt: 20.  
Other REC Limits: 500 PPM STEL  
OSHA PEL: 400 PPM  
ACGIH TLV: 400 PPM/500STEL;9596  
-----

-----  
Cas: 110-54-3  
RTECS #: MN9275000  
Name: HEXANE (N-HEXANE) (CERCLA)  
% low Wt: 2.  
% high Wt: 3.  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: 50 PPM  
ACGIH TLV: 50 PPM; 9596  
EPA Rpt Qty: 1 LB  
DOT Rpt Qty: 1 LB

=====  
Health Hazards Data  
=====

LD50 LC50 Mixture: LD50 (ORAL, RAT) IS UNKNOWN.  
Route Of Entry Inds - Inhalation: YES  
Skin: YES  
Ingestion: NO  
Carcinogenicity Inds - NT  
P: NO  
IARC: NO  
OSHA: NO  
Effects of Exposure: TARGET ORGANS: EYE, SKIN, CENTRAL NERVOUS SYSTEM,  
RESPIRATORY TRACT. ACUTE- VAPOR AND LIQUID MAY CAUSE EYE IRRITATION.  
PROLONGED/REPEATED SKIN CONTACT MAY CAUSE DRYNESS. CAN BE ABSORBED THROUGH  
SKIN. INHALATION MAY CAUSE HEADACHE, LIGHT HEADEDNESS, CENTRAL NERVOUS  
SYSTEM DEPRESSION. MAY IRRITATE MUCOSAL TISSUE AT HIGH CONCENTRATION.  
INGESTIOPN IS UNLIKELY ROUTE OF EXPOSURE. HOWEVER, MINUTE AMOUNTS ASPIRATED  
INTO LUNGS DURING INGESTION MAY CAUSE CHEMICAL PNEUMONIA. CHRONIC - UNKNOWN.  
Explanation Of Carcinogenicity: NONE  
Signs And Symptoms Of Overexposure: IRRITATION, HEADACHE, NAUSEA, VOMITING,  
DIZZINESS, SKIN DEFATTING AND DRYNESS, BLURRED VISION, TEARING  
Medical Cond Aggravated By Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS,  
EYE PROBLEMS OR IMPAIRED CNS OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE  
TO THE EFFECTS OF THIS PRODUCT.  
First Aid: GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED: REMOVE TO FRESH AIR.  
P  
ROVIDE OXYGEN IF NEEDED. EYES: FLUSH WITH WATER FOR 15 MINUTES, HOLDING  
EYELIDS OPEN. SKIN: WASH WITH SOAP & WATER. APPLY MEDICATED CREAM.  
INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY. NEVER  
GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

=====  
Handling and Disposal  
=====

Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF  
IGNITION. VENTI

LATE AREA. CONTAIN AND PICK UP SPILL WITH NON-FLAMMABLE  
ABSORBENT SUCH AS SAND OR EXPLOSION-PROOF PUMP. GROUND ALL HANDLING  
EQUIPMENTS. PREVENT LIQUID FROM ENTERING SEWERS OR WATERWAYS.

Neutralizing Agent: NOT RELEVANT

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL  
REGULATIONS. RECYCLING OR INCINERATION FOR FUEL RECOVERY IS RECOMMENDED.

HAZARDOUS WASTE NUMBER: D001. CERCLA REPORTABLE QUANTITY: 5000 LBS

Handling And Storage Precautions: STORE IN COOL, VENT

ILATED AREA, AWAY FROM

FLAMES, SPARKS, HOT SURFACES & STRONG OXIDIZING AGENTS. KEEP CONTAINER  
TIGHTLY CLOSED.

Other Precautions: EXTREMELY FLAMMABLE. "EMPTY" CONTAINERS RETAIN RESIDUE AND  
CAN BE DANGEROUS. FOLLOW ALL LABEL INSTRUCTIONS. AVOID REPEATED/PROLONGED  
SKIN CONTACT. KEEP OUT OF REACH OF CHILDREN. DO NOT BREATHE VAPORS.

=====  
Fire and Explosion Hazard Information  
=====

Flash P

oint Method: TCC

Flash Point: <-17.8C, 0.F

Lower Limits: 1.2

Upper Limits: 7.7

Extinguishing Media: CARBON DIOXIDE, FOAM, SAND/DRY CHEMICAL. AVOID SPREADING  
ANY BURNING LIQUID WITH WATER SPRAY. WATER MAY BE INEFFECTIVE.

Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED  
SELF-CONTAINED BREATHING APPARATUS. COOL FIRE-EXPOSED CONTAINERS WITH WATER  
SPRAY.

Unusual Fire/Explosion Hazard: VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL  
CONSIDERABLE DISTANCE TO A SOURCE OF IG  
NITION AND FLASH BACK. CONTAINERS MAY  
RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

=====  
Control Measures  
=====

Respiratory Protection: IF TLV IS EXCEEDED, WEAR NIOSH-APPROVED ORGANIC VAPOR  
RESPIRATOR OR AIR-PURIFYING RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED  
POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Ventilation: MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF)  
VENTI

LATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: RUBBER, NEOPRENE

Eye Protection: CHEMICAL SAFETY GOGGLES

Other Protective Equipment: EYE WASH STATION & SAFETY SHOWERS SHOULD BE  
AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE.

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING OR DRINKING.

=====  
Physical/Chemical Properties  
=====

=====

HCC: F2

NRC/State LIC No: NOT RELEVANT

Boiling Point: =60.6C, 141.F

M.P/F.P Text: UNKNOWN

Decomp Text: UNKNOWN

Vapor Pres: 352 @ 100F

Vapor Density: 3.0

Spec Gravity: 0.665

Viscosity: UNKNOWN

Appearance and Odor: CLEAR, COLORLESS LIQUID - MILD ALCOHOL ODOR

Percent Volatiles by Volume: 100

Corrosion Rate: UNKNOWN

=====

Reactivity Data

=====

Stability In

dicator: YES

Stability Condition To Avoid: HIGH HEAT, OPEN FLAMES, SPARKS, HOT SURFACES,  
ELECTRICAL ARCS, OTHER SOURCES OF IGNITION

Materials To Avoid: STRONG OXIDIZING AGENTS, OXYGEN

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT

=====

Toxicological Information

=====

=====

=====

Ecological Information

=====

=====

MSDS Transport Information

=====

=====

Regulatory Information

=====

Sara Title III Information: YES, CAS # 110-54-3

=====

Other

Information

=====  
=====  
Transportation Information  
=====

Responsible Party Cage: 66724

Trans ID NO: 134673

Product ID: CFC-FREE ELECTRO CONTACT CLEANER,03105

MSDS Prepared Date: 11/07/1996

Review Date: 11/06/1998

MFN: 1

Tech Entry NOS Shipping Nm: CONTAINS ISOHEXANE, ISOPROPANOL, N-HEXANE.

Radioactivity: NOT RELEVANT

Net Unit Weight: 27.9 LBS

AF

MMAC Code: NR

Multiple KIT Number: 0

Review IND: Y

Unit Of Issue: CN

Container QTY: 0

Type Of Container: CAN

Additional Data: PROPER SHIPPING NAME, HAZARD CLASS, UN ID NUMBER AND PACKING GROUP PER MSDS. MAXIMUM ALLOWED BY CARG O AIR: 60 LITERS.

=====  
=====  
Detail DOT Information  
=====

DOT PSN Code: GJJ

Symbols: G

DOT Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.

Hazard Class: 3

UN ID Num: UN1993

D

OT Packaging Group: II

Label: FLAMMABLE LIQUID

Special Provision: T8,T31

Non Bulk Pack: 202

Bulk Pack: 242

Max Qty Pass: 5L

Max Qty Cargo: 60 L

Vessel Stow Req: B

=====  
=====  
Detail IMO Information  
=====

IMO PSN Code: HIN

IMO Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. o

IMDG Page Number: 3230

UN Number: 1993

UN Hazard Class: 3.2

IMO Packaging Group: I/II

Subsidiary Risk Label: -

EMS Number: 3-07

ME

D First Aid Guide NUM: T

=====  
Detail IATA Information  
=====

IATA PSN BV  
IATA UN ID Num: 1993  
IATA Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. \*  
IATA UN Class: 3  
IATA Label: FLAMMABLE LIQUID  
UN Packing Group: II  
Packing Note Passenger: 305  
Max Quant Pass: 5L  
Max Quant Cargo: 60L  
Packaging Note Cargo: 307  
=====

=====  
Detail AFI Information  
=====

AFI PSN BV  
AFI Symbols: \*  
AFI Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.  
AFI Hazard Class: 3  
AFI UN ID NUM: UN1993  
AFI Packing Group: II  
Special Provisions: P5  
Back Pack Reference: A7.3  
=====

=====  
HAZCOM Label  
=====

Product ID: CFC-FREE ELECTRO CONTACT CLEANER,03105  
Cage: 66724  
Company Name: LPS LABORATORIES, INC.  
Street: 4647 HUGH HOWELL ROAD  
City:  
TUCKER GA  
Zipcode: 30085-5052  
Health Emergency Phone: 770-934-7800/800-424-9300(CHEMTREC)  
Label Required IND: Y  
Date Of Label Review: 03/25/1999  
Status Code: C  
MFG Label NO: UNKNOWN  
Year Procured: 1999  
Origination Code: F  
Eye Protection IND: YES  
Skin Protection IND: YES  
Signal Word: DANGER  
Respiratory Protection IND: NO  
Health Hazard: Moderate  
Contact Hazard: Slight  
Fire Hazard: Severe  
Reactivity Hazard: None  
Hazard And Precautions: TARGET ORGANS: EYE, SKIN, CENTRAL NERVOUS SYSTEM,  
RESPIRATORY

TRACT. ACUTE- VAPOR AND LIQUID MAY CAUSE EYE IRRITATION.  
PROLONGED/REPEATED SKIN CONTACT MAY CAUSE DRYNESS. CAN BE ABSORBED THROUGH  
SKIN. INHALATION MAY CAUSE HEADACHE, LIGHT HEADEDNESS, CENTRAL NERVOUS  
SYSTEM DEPRESSION. MAY IRRITATE MUCOSAL TISSUE AT HIGH CONCENTRATION.  
INGESTIOPN IS UNLIKELY ROUTE OF EXPOSURE. HOWEVER, MINUTE AMOUNTS ASPIRATED  
INTO LUNGS DURING INGESTION MAY CAUSE CHEMICAL PNEUMONIA. CHRONIC - UNKNOWN.

=====

Discl

claimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.