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Product ID:LEKSOL MSDS Date:07/23/1997 FSC:6850 NIIN:01-443-0893 **MSDS Number: CFCYX** === Responsible Party === Company Name: ADVANCED CHEMICAL DESIGN INC Address:498 SOUTH BELVOIR BLVD City:CLEVELAND State:OH ZIP:44121 Country:US Info Phone Num:216-382-2032 FAX # 216-291-5949 Emergency Phone Num:216-382-203 2/800-255-3924(CHEM-TEL) Preparer's Name: RICH HENRY CAGE:ADVCI === Contractor Identification === Company Name: ADVANCED CHEMICAL DESIGN INC **Box:UNKNOW** CAGE:05HH6 Company Name: ADVANCED CHEMICAL INDUSTRIES Address: HWY 2 AND 52 WEST City:MINOT State:ND ZIP:58701-5000 Country:US Phone:701-852-5130 CAGE:ADVCI

Ingred Name:HALOGENATED HYDROCARBON-TRADE SECRET PENDING Fraction by Wt: 100% Other REC Limits:8-HR TWA - 100 PPM

LD50 LC50 Mixture:RECOMMEDED TWA 8-HR: 100 PPM.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION OF HIGH CONCENTRATIONS ARE
IRRITATING TO THE RESPIRATORY TRACT; MAY CAUSE CNS EFFECTS. CONTACT MAY CAUSE SKIN & EYE IRRITATION. INGESTION MAY CAUSE IRRITATION OF MOUTH & GI TRACT; CNS EFFEC TS.
Explanation of Carcinogenicity:
NO INGREDIENT OF A CONCENTRATION OF 0.1%
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Effects of Overexposure:INHALED-RESPIRATORY IRRITATION, HEADACHE, NAUSEA, VOMITING, DIZZINESS, NARCOSIS. SKIN-IRRITATION, DERMATITIS. EYES-IRRITATION, PAIN. INGESTED-IRRITATION OF MOUTH/GI TRACT, ABDOMINAL PAIN, VOMITING, HE ADACHE, DIZZINESS, NARCOSIS.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:IN ALL CASES GET MEDICAL ATTENTION. EYES-FLUSH WITH WATER FOR 15 MINUTES. SKIN-REMOVE CONTAMINATED CLOTHES. WASH WITH MILD SOAP & WATER. INHALED-REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRAT ION AS NEEDED. INGESTED-IF CONSCIOUS, DRINK LARGE AMOUNTS OF WATER. DO NOT INDUCE VOMITING! NOTHING BY MOUTH IF UNCONSCIOUS!

Flash Point:NON-FLAMMABLE Lower Limits:NONE Upper Limits:NONE Ext inguishing Media:MATERIAL IS NON-FLAMMABLE. DLA-HMIS: USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE FIGHTER'S PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:PRODUCT WILL DECOMPOSE AT TEMPERATURES ABOVE 400F RELEASING TOXIC FUMES OF CARBON DIOXIDE, CARBON MONOXIDE AND HYDROGEN BROMIDE.

Spill Release Procedures: EVACUATE AREA. STOP LEAK I

F CAN BE DONE WITHOUT RISK. CONTAIN SPILL AND COVER WITH VERMICULITE. PLACE IN A CONTAINER FOR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. PROTECT FROM EXTREME TEMPERATURES. ISOLATE INCOMPATIBLE MATERIALS.

Other Precautions: KEEP THIS MATERIAL OUT OF REACH OF CHILDREN. MINIMIZE BODY CONTACT WITH THIS PRODUCT. AVO

ID INHALAING FUMES OR VAPORS.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection: IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.
Ventilation: USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO KEEP VAPOR AND MISTS LEVELS AS LOW AS POSSIBLE.
Protective Gloves: VITON, POLYETHYLENE, NITRILE.
Eye Protection: CHEMICAL SPL
ASH GOGGLES OR FACESHIELD.
Other Protective Equipment: DO NOT WEAR CONTACT LENSES. CLEAN, BODY-COVERING CLOTHING, APRON, BOOTS NOT MADE OF NATURAL RUBBER. EYE WASH/SHOWER.
Work Hygienic Practices: ELIMINATE BODY CONTACT WITH THIS CHEMICAL. DO NOT EAT, DRINK OR SMOKE UNTIL AFTER WORK OR WASHING.
Supplemental Safety and Health

HCC:N1

Boiling Pt:B.P. Text:156F,69C Melt/Freeze Pt:M.P/F.P Text:-166F,-110C Vapor Pres:143 Vapor Density:4.3 Spec Gravity:1.32 Solubility in Water:NEGLIGIBLE Appearance and Odor:CLEAR, COLORLESS LIQUID; SWEET ODOR.

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG ACIDS. MAY ATTACK SOME PLASTICS, RUBBER AND COATINGS.

Stability Condition to Avoid:AVOID TEMPERATURES AABOVE 400F (204.4C). Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY YIELD CARBON MONOXIDE AND CARBON DIOXIDE

, HYDROGEN BROMIDE. Conditions to Avoid Polymerization:WILL NOT OCCUR.

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. DO NOT FLUSH TO SANITARY SEWER OR WATERWAY. REFER TO RCRA REGULATIONS 40 CFR 260-281 FOR WASTE DISPOSAL INTRUCTIONS.

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