

ADVANCED CHEMICAL DESIGN INC -- LEKSOL -- 6850-01-443-0893

===== Product Identification =====

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:UNKNOWN

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

===== Composition/Information on Ingredients =====

Ingred Name:HALOGENATED HYDROCARBON-TRADE SECRET PENDING

Fraction by Wt: 100%

Other REC Limits:8-HR TWA - 100 PPM

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===== Hazards Identification =====

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 Measures =====

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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!

===== Fire Fighting Measures =====

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.

===== Accidental Release Measures =====

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 =====

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. AVOID INHALING 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 SPLASH 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

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

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 and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

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

Stability Condition to Avoid:AVOID TEMPERATURES ABOVE 400F (204.4C).

Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY YIELD CARBON MONOXIDE AND CARBON DIOXIDE

, HYDROGEN BROMIDE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Disposal Considerations =====

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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