



Expect Service

Radiation Products Design Inc

SAFETY DATA SHEET

RPD INFORMATION

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RAW MATERIAL INFORMATION

D-Lead® All Purpose Cleaner

Material Safety Data Sheet

Page 1 of 3

Issue Date: March 20, 1991; Revisions: Rev 1: 01/01/94; Rev 2: 05/01/97; Rev 3: 06/09/97; Rev 4: 01/28/98;
Rev 5: 09/22/00; Rev 6: 01/29/02; Rev 7: 01/30/03; Rev 8: 02/01/06; Rev 9: 05/08/08; Rev 10: 04/27/11; Rev 11: 12/03/12

D-Lead® All Purpose Cleaner

Section 1: Chemical Product and Company Identification

Product Name: D-Lead® All Purpose Cleaner

Manufacturer: ESCA Tech, Inc.
3747 North Booth Street
Milwaukee, WI 53212
Phone: (414) 962-5323
Fax: (414) 962-7003

Transportation Emergency Phone:
1-800- 535-5053
InfoTrac
(24 hours, during transportation only)

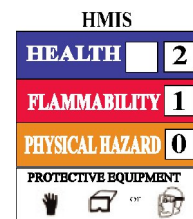


email: cservice@esca-tech.com

Product Code #: 3102ES

CAS No.: Not applicable – product is a mixture

Generic Description: Concentrated liquid, alkaline detergent



Section 2: Composition/Information on Ingredients

Hazardous Ingredient CAS Number	Max % w/w	OSHA PEL (TWA) (ppm)	ACGIH TLV (TWA) (ppm)
2-Butoxyethanol (CAS#: 111- 76-2)	5	50	20
Potassium Hydroxide (CAS#: 1310-58-3)	1	NE	NE

Section 3: Hazards Identification

Potential Health Effect

EYE CONTACT: Eye irritant. Splashes possible. Causes severe eye irritation or burning upon contact.
SKIN CONTACT: Skin irritant. May cause skin irritation.
INGESTION: Not normal route of entry. Harmful if swallowed. May cause burns to mouth, throat and stomach. Nausea, dizziness or fatigue possible.
INHALATION: Does not generate vapors at normal temperatures.

Section 4: First Aid Measures

EYE CONTACT: Remove contact lenses. Flush with water for 15 minutes and get immediate medical attention.
SKIN CONTACT: Remove and isolate contaminated clothing. Wash thoroughly with soap and water. Rinse with water. If irritation persists, get medical attention.
INGESTION: If ingested, do not induce vomiting. Drink 2 - 3 glasses of water and get immediate medical attention.
INHALATION: Remove person to fresh air.

Section 5: Fire Fighting Measures

Flash Point: NA
LEL: NA
UEL: NA
Extinguishing Media: Material will not burn.
Unusual Fire and Explosion Hazards: Material will not support combustion.
Special Fire Fighting Procedure: NA

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Section 6: Accidental Release Measures

Small spills can be mopped up, and floor rinsed with water. For large spills, stop leak at source, contain spill and absorb onto inert medium for disposal. Place absorbent into labeled, closed container, store in safe location until shipped for proper disposal. Dispose in accordance with all applicable local, state and federal waste regulations.

Section 7: Handling and Storage

Handling: Keep out of reach of children. Avoid eye and skin contact. Avoid tasting or ingesting this product. For professional use only.

Storage: Store at temperatures between 40 °F and 100 °F (4 °C – 38 °C), out of direct sunlight. Heat buildup may cause product to cloud and separate irreversibly. Keep container tightly closed when not in use.

Section 8: Exposure Controls/Personal Protection

General Controls	Avoid eye and skin contact.
Respiratory Protection:	Not required.
Ventilation:	Normal.
Protective Clothing:	None required under normal use condition.
Protective Gloves:	Neoprene, nitrile, natural rubber or PVC.
Eye Protection:	Use chemical safety goggles or faceshield if splashing is anticipated.
Other Protective Clothing or Equipment:	Eye wash and safety shower.
Work/Hygienic Practices:	Follow good housekeeping practices.

Section 9: Physical and Chemical Properties

Boiling Point:	208 °F
Vapor Pressure:	NE
Vapor Density (Air = 1):	>1, same as water.
Specific Gravity (H ₂ O = 1):	1.028 (8.58 lbs./gal.)
Evaporation Rate (Butyl Acetate = 1):	NE
Solubility in Water:	Complete.
Appearance and Odor:	Clear, purple liquid with camphor odor.
pH:	11.5 to 11.8 - undiluted; 10.5 at a 4: 1 dilution with water.
VOC Content wt%:	5% maximum

Section 10: Stability and Reactivity

Stability:	Stable.
Conditions to Avoid:	None known.
Incompatibility (materials to avoid):	Should not be mixed with other chemicals.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition	Thermal decomposition may produce carbon monoxide and/or carbon dioxide.

Section 11: Toxicological Information

This product has not been tested as a whole.

Section 12: Ecological Information

This product has not been tested as a whole.

Section 13: Disposal Consideration

After use, solution may contain suspended and dissolved heavy metals along with fats, oils and greases. Discharge wastewater in accordance with all applicable local, state and federal regulations and in accordance with all water discharge permits.

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Section 14: Transport Information

Proper Shipping Name (49 CFR 172.101):	Compound, Cleaning Liquid, N.O.S.
D.O.T. Hazard Name (49 CFR 172.101):	NA
D.O.T. ID No.:	NA
D.O.T. Hazard Class:	NA

Section 15: Regulatory Information

"Based on the available information concerning the potential hazards of and projected exposures to EGBE, EPA has made a determination pursuant to CAA section 112(b)(3)(C) that there are ``adequate data on the health and environmental effects [of EGBE] to determine that emissions, ambient concentrations, bioaccumulation, or deposition of the substance may not reasonably be anticipated to cause adverse effects to human health or adverse environmental effects. (Federal Register: November 29, 2004, Volume 69, Number 228, Page 69320).

RCRA (Lists of Hazardous Wastes, 40 CFR 261 Subpart D):	NA
CLEAN AIR ACT (SEC. 112. Hazardous Air Pollutants):	NA
CLEAN WATER ACT (RQ, 40 CFR):	Potassium Hydroxide: 1,000 lbs (454 kg)
CERCLA: Section 102 (RQ, 40 CFR):	Potassium Hydroxide: 1,000 lbs (454 kg)
SARA Title III:	Components present in this product at a level which could require reporting are: none.
Section 302 -304, 40 CFR 355	
Section 311 - 312:	Components present in this product at a level which could require reporting are: none.
Section 313:	NA
TSCA Section 8(b) Inventory Status:	All ingredients are listed on TSCA Inventory of Chemical Substances or exempt from TSCA Inventory requirements.
Workplace Hazardous Materials Information System (WHMIS):	2-Butoxyethanol: D2B
Canada DSL:	All ingredients are listed on the Canada Domestic Substances List.
AICS Inventory Status:	All ingredients are listed on the Australia Inventory of Chemical Substances.

State Lists

2-Butoxyethanol – CA, FL, MA, NJ, PA
Potassium Hydroxide – CA, FL, MA, NJ, PA

This product is not subject to the reporting requirements under California's Proposition 65.

Section 16: Other Information

NA – Not Applicable
NE – Not Established
EGBE – Ethylene Glycol Monobutyl Ether (2-Butoxyethanol)
RQ - Reportable Quantity

ESCA Tech, Inc Disclaimer "The information and recommendations presented herein are based on sources believed to be reliable as of the date hereof. ESCA Tech makes no representation as to the completeness or accuracy thereof. It is the user's responsibility to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. No representations or warranties not expressly set forth herein are made hereunder, whether express or implied by operation of law or otherwise, including, but not limited to any implied warranties of MERCHANTABILITY OR FITNESS. ESCA Tech neither assumes nor authorizes any other person to assume for it, any other or ADDITIONAL LIABILITY OR RESPONSIBILITY resulting from the use of, or reliance upon, this information."

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