ESCA Tech, Inc. Safety Data Sheet

D-Lead® All Purpose Cleaner

3102ES Revision Date: 10-Sep-2015

1. IDENTIFICATION

Product Name	D-Lead® All Purpose Cleaner
Other means of identification	Product Code: 3102ES
Recommended Use	Clean up of metal dusts

Company	Emergency Telephone Number	
ESCA Tech, Inc. 3747 North Booth Street Milwaukee, WI 53212 e-mail: cservice@esca-tech.com	Company Phone Number:	Phone: (414) 962-5323 Fax: (414) 962-7003
	Emergency Telephone (24 hr):	INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

2. HAZARD IDENTIFICATION

GHS Classification

Causes serious eye irritation	Category 2A
Causes skin irritation	Category 2

GHS Label element

Signal Word: Warning

Hazard Statements: Causes serious eye irritation.
Causes skin irritation.

Precautionary Statements:

Prevention

Avoid contact with eyes and skin. Wear safety glasses and protective gloves. If splashing is anticipated, wear chemical safety goggles or face shield. Wash thoroughly after handling. Store contents under 100 ºF (38 ºC), protect from sunlight.

Response

IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice. IF ON SKIN: Remove contaminated clothing. Rinse skin with soap and water. IF INHALED: Remove person to fresh air. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical advice.

Other Hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
2-Butoxyethanol (Ethylene Glycol Butyl Ether, EGBE)	111-76-2	<5
Potassium hydroxide	1310-58-3	<0.2
Sodium silicate	1344-09-8	<1.5

Note: If Chemical Name/CAS No is “proprietary” and /or Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

“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).

4. FIRST AID MEASURES

First Aid Measures

In case of eye contact:	Rinse with plenty of water immediately for 15 minutes. Remove contact lenses, if present and easy to do and continue rinsing. If irritation persists: Get medical advice.
In case of skin contact:	Wash with soap and water. Take off contaminated clothing. If skin irritation persists: Get medical advice.
If inhaled:	Does not generate vapors at normal temperature. Remove person to fresh air. Get medical attention if symptoms occur.
If swallowed:	Rinse mouth. Do not induce vomiting. Drink 2 – 3 large glasses of water. If symptoms occur: Get medical attention.
Symptoms:	May cause painful stinging of eyes and lids, watering of eyes. Prolonged contact with skin may cause severe skin irritation or mild burn. If swallowed may cause irritation and burns to mouth, throat and stomach, nausea, dizziness or fatigue.
Notes to physician:	Treat symptomatically.

See toxicological information (Section 11).

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and surrounding environment.
Unsuitable extinguishing media:	None known.
Specific hazards during firefighting:	Not flammable or combustible.
Hazardous combustion products:	Carbon oxides
Protective equipment and precautions for firefighters:	As in any fire, wear self-contained breathing apparatus MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific extinguishing methods:	Collect contaminated fire extinguishing water separately. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations. In the event of fire do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Ensure clean-up is conducted by trained personnel only. Refer to protective measures, section 7 and 8.
Environmental precautions:	Avoid contact with soil, surface or groundwater.
Methods and material containment and cleaning up:	Stop and prevent further leakage or spillage if safe to do so. Contain spillage and then absorb with non-combustible, absorbent material. Place in appropriate containers for disposal. Dispose of in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Advice on safe handling:	Dispense with a plastic or stainless steel dispenser. Avoid dispensers with wetted metal parts, except stainless steel. Heat buildup may cause product to cloud and separate irreversibly. Use personal protection recommended in Section 8. Wash thoroughly after handling. Avoid contact with eyes. Do NOT take internally
Conditions for safe storage:	Keep out of reach of children. Keep container tightly closed in a cool, dry and well-ventilated place. Store in suitable labeled containers.
Storage temperature:	Storage between 40 – 100 ºF (4 - 38 ºC), out of direct sunlight and away from extreme heat.
Incompatible materials:	Do not mix with other chemicals or cleaners.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name	ACGIH	OSHA	NIOSH
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m^3	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m^3
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m^3		Ceiling: 2 mg/m^3
Sodium silicate 1344-09-8	TLV: 2 mg/m^3	PEL: 2 mg/m^3	-

Engineering Controls: Eyewash stations, showers.

Individual protection measures, such as personal protective equipment

Eye/face protection: Avoid contact with eyes. Wear safety glasses. Wear chemical safety goggles or face shield if splash hazard exists.

Skin and body protection: Wear protective gloves.

Respiratory protection: Not needed under normal use conditions.

Hygiene measures: Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Color: Purple

Odor: Camphor

Odor threshold: Not determined

pH: Max. 10.5, undiluted
10.4 @ a dilution of one (1) part D-Lead® All Purpose Cleaner and four (4) parts water

Melting point/Freezing point: Not determined

Boiling point/Boiling range: 98ºC/ 208 ºF

Flash point: Not applicable

Evaporation rate: Not established

Flammability: Not applicable

Upper Flammability Limits: Not applicable

Lower Flammability Limits: Not applicable

Vapor pressure: Not established

Vapor density: >1 (same as water) (Air = 1)

Density: 8.5 – 8.6 lb/gal

Specific gravity: 1.020 – 1.030 (Water = 1)

Water solubility: Completely soluble

Solubility in other solvents: Not determined

Partition coefficient: Not determined

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

VOC content: 5% maximum in concentrate

10. STABILITY AND REACTIVITY

Reactivity:	Not reactive under normal conditions.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	None under normal processing.
Hazardous polymerization:	Hazardous polymerization does not occur
Incompatible materials:	Do not mix with other chemicals or cleaners.
Hazardous decomposition products:	Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Product

Potential Health Effects

Eyes:	Causes serious eye irritation.
Skin:	Causes skin irritation.
Ingestion:	Do not taste or swallow.
Inhalation:	Health injuries are not expected under normal use.

Toxicity

Acute oral toxicity:	Numeric measures of toxicity: Not determined.
Acute dermal toxicity:	Not determined.
Acute inhalation toxicity:	Not determined.
Sensitization:	May cause allergic skin reaction in some individuals
Carcinogenicity:	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Ingredients Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Butoxyethanol 111- 76-2	= 470 mg/kg (Rat)	=2,270 mg/kg (Rat) =220 mg/kg(Rabbit)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4h
Potassium hydroxide 1310-58-3	= 214 mg/kg (Rat)	-	-
Sodium silicate 1344-09-8	= 3,400 mg/kg (Rat)	-	-

12. ECOLOGICAL INFORMATION

Ecotoxity

Environmental effects: Harmful to aquatic life.

Product

Toxicity to fish:	No data available.
Toxicity to daphnia and other aquatic invertebrates:	No data available.
Toxicity to algae:	No data available.

Ingredients

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2-Butoxyethanol 111- 76-2		1,490: 96 h Lepomis macrochirus mg/L LC50 static 2,950: 96 h Lepomis macrochirus mg/L LC50		1,498: 48 h Daphnia magna mg/L EC50 340.7 – 469.2: 48 h Daphnia magna mg/L EC50 static
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L LC50 static		
Sodium silicate 1344-09-8		1,108: 96 h Brachydanio rerio mg/L LC50		1,700: 48 h Daphnia magna mg/L EC50

Persistence/Degradability: Not determined.

Bioaccumulative potential: Not determined.

Mobility in soil: 2-Butoxyethanol (111- 76-2) - Partition coefficient: 0.81
Potassium hydroxide (1310-58-3) - Partition coefficient: 0.83

Other Adverse Effects: Not determined.

13. DISPOSAL CONSIDERATION

Waste Treatment Methods

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

D.O.T.: Not regulated.

IATA.: Not regulated.

IMDG: Not regulated.

15. REGULATORY INFORMATION

US Federal Regulations

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)

SARA Title III:

Section 302 -304, 40 CFR 355: Components present in this product at a level which could require reporting are: none.

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.

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

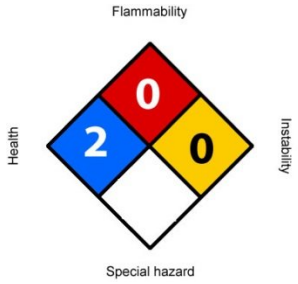
This product is not subject to the reporting requirements under California's Proposition 65.

Legend

AICS *– Australian Inventory of Chemical Substances*
ACGIH *- American Conference of Governmental Industrial Hygienists*
D.O.T. *– Department of Transportation (US)*
DSL/NDSL *–Canadian Domestic Substances List/Non-Domestic Substances List*
EU – *European Union*
FDA – *Food and Drug Administration (US)*
IARC *– International Agency for Research on Cancer*
IATA *- International Air Transport Association*
*I**MDG**- International Maritime Dangerous Goods*
NTP *– National Toxicology Program (US)*
NIOSH - *National Institute for Occupational Safety and Health*
OSHA *- Occupational Safety and Health Administration (US)*
RCRA *- Resource Conservation and Recovery Act*
SARA *- Superfund Amendments and Reauthorization Act* (US)
TSCA – *United States Toxic Substances Control Act Section 8(b) Inventory*

16. OTHER INFORMATION

NFPA:



HMIS III

0 = not significant
1 = slight
2 = moderate
3 = high
4 = extreme
* = chronic

Revisions:

Issue Date: 20-March-1991

Revision Date: 10-Sep-2015

Revision number: R13

Revision note: New format. Section 2: Added IF INHALED.
Section 15: Added State Lists.

Disclaimer "

The information provided in this Safety Date Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and it is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or any process, unless specified in the text.