

D-Lead® Test Kit Solution 1

KT-

Revision Date: 14-Mar-2016

1. IDENTIFICATION

Product Name	D-Lead® Test Kit Solution 1	
Other means of identification	Product Code: KT-001 #1001; KT-002 #1001; KT-020 #1001; KT-021 #1001; KT-024 #1001; KT-401 #1001; KT-1000 #1001	
Recommended Use	Detecting presence of lead	
<u>Company</u>	<u>Emergency Telephone Number</u>	
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

Eye Damage/Irritation: Category 2A

GHS Label element

Signal Word: Warning

Hazard Statements: Causes serious eye irritation.



Precautionary Statements:

Prevention

Avoid contact with eyes. Wash thoroughly after handling.
For external use only.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF ON SKIN: Wash with plenty of water. Remove contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice. IF SWALLOWED: Rinse mouth. Drink 2-3 glasses of water. Do NOT induce vomiting. Call a doctor if you feel unwell. IF INHALED: Remove person to fresh air.

Other Hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Weight %
Acetic acid	64-19-7	< 5%

4. FIRST AID MEASURES

First Aid Measures:

In case of eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
In case of skin contact:	Wash with plenty of water. Remove contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice.
If swallowed:	Rinse mouth. Drink 1 – 2 glasses of water. If symptoms occur: Get medical advice.
If inhaled:	Remove to fresh air.
Symptoms:	May cause stinging of eyes and lids, watering of eyes. Prolonged contact with skin may cause skin irritation and dryness. Ingestion may cause irritation to mouth, throat and stomach or nausea.
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 determined.
Specific hazards during firefighting:	Will not support combustion.
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:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Do not take internally. Wash hand after handling.
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 °F (4 - 38 °C), out of direct sunlight and away from extreme heat.
Incompatible materials:	Strong acids, alkalis and oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetic Acid 64-19-7	STEL: 15 ppm TWA: 10 ppm	TWA: 10 ppm TWA: 25 mg/m ³	IDLH: 50 ppm TWA: 10 ppm TWA: 25 mg/m STEL: 15 ppm STEL: 37 mg/m ³

Engineering Controls: Eyewash station. Showers.

Individual protection measures, such as personal protective equipment

Eye/face protection: Avoid contact with eyes. Safety glasses or goggles.
 Skin and body protection: No protective equipment is needed under normal use conditions.
 Respiratory protection: No protective equipment is needed under normal use conditions.
 Hygiene measures: Avoid contact with eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid
 Color: Colorless
 Odor: Apple and vinegar mixture
 Odor threshold: Not determined
 pH: 2.4 – 2.9
 Melting point/Freezing point: Not determined
 Boiling point/Boiling range: ~100 °C/ 212 °F
 Flash point: Not applicable.
 Evaporation rate: Not established
 Flammability (solid, gas): Not applicable
 Upper Flammability Limits: Not determined
 Lower Flammability Limits: Not determined
 Vapor pressure: Not established
 Vapor density: <1 (same as water) (Air = 1)
 Specific gravity: 1.0 (Water = 1)
 Water solubility: Completely soluble
 Solubility in other solvents: Not determined
 Partition coefficient: Not determined
 Auto-ignition temperature: Not determined
 Density: 8.34 lb/gal
 Decomposition temperature: Not determined
 Viscosity: Not determined

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.

Conditions to avoid: See section 7 Handling and Storage. Keep out of reach of children.
 Incompatible materials: Strong acid, strong alkalis and oxidizing agents.
 Hazardous decomposition products: Thermal decomposition may produce carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Potential Health Effects

Eyes: Causes serious eye irritation.
 Skin: Health injuries are not expected under normal use.
 Ingestion: Health injuries are not expected under normal use.
 Inhalation: Health injuries are not expected under normal use.

Product

Experience with human exposure

Eye contact: Redness, irritation
 Skin contact: May cause skin irritation.
 Ingestion: May cause indigestion.
 Inhalation: No symptoms are expected.

Toxicity

Acute oral toxicity: Numeric measures of toxicity: see below
 Acute dermal toxicity: See below.
 Acute inhalation toxicity: See below.
 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
Acetic acid 64-19-7	=3,310 mg/kg (Rat)-	=1,060 mg/kg (Rabbit)	=11.4 mg/L (Rat) 4 h-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental effects: Harmful to aquatic life.

Toxicity to fish: See below.
 Toxicity to daphnia and other aquatic invertebrates: See below.
 Toxicity to algae: See below.
 Persistence and Degradability: Not determined.
 Bioaccumulative Potential: Not determined.
 Mobility in soil: Not determined
 Other Adverse Effects: Not determined.

Ingredients

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Acetic acid 64-19-7		79: 96 h Pimephales promelas mg/L LC50 static 75: 96h Lepomis macrochirus mg/L LC50 static	EC50= 8.8 mg/L 15 min EC50= 8.8 mg/L 25 min EC50= 8.8 mg/L 5 min	65: 48 h Daphnia magna mg/L EC50 Static 47: 24h Daphnia magna mg/L EC50

13. DISPOSAL CONSIDERATION

Waste Treatment Methods

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

Contaminated 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): Not applicable
- CLEAN AIR ACT (SEC. 112. Hazardous Air Pollutants): Not applicable
- CLEAN WATER ACT (RQ, 40 CFR): Acetic acid: 5,000 lbs (2,270 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: Not applicable
- TSCA Section 8(b) Inventory Status: All ingredients are listed on TSCA Inventory of Chemical Substances or exempt from TSCA Inventory requirements.
- AICS Inventory Status: All ingredients are listed on the Australia Inventory of Chemical Substances.

State Lists

Acetic Acid – CA, FL, MA, MN, NJ, PA, RI

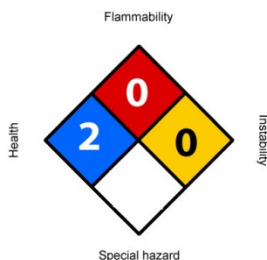
This product does not contain any Proposition 65 chemicals.

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
- IARC* – International Agency for Research on Cancer
- IATA* - International Air Transport Association
- IMDG*- International Maritime Dangerous Goods
- NIOSH* - National Institute for Occupational Safety and Health
- NTP* – National Toxicology Program (US)
- OSHA* - Occupational Safety and Health Administration (US)
- REACH* - Registration, Evaluation, Authorisation and Restriction of Chemicals (EU)
- 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:



0 = not significant
1 = slight
2 = moderate

HMIS III



3 = high
4 = extreme
* = chronic

Revisions:

- Issue Date: 06-Oct-1997
- Revision Date: 14-March-2016
- Revision number: R12
- Revision note: New format. Rev 12: updated Section 2, 4, 15.

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.

D-Lead[®] Test Kit Solution 2

KT-

Revision Date: 14-Mar-2016

1. IDENTIFICATION

Product Name: D-Lead[®] Test Kit Solution 2
 Other means of identification: Product Code: KT-001 #1002; KT-002 #1002; KT-020 #1002; KT-021 #1002; KT-024 #1002; KT-401 #1002; KT-1000 #1002
 Recommended Use: Detecting presence of lead

Company

ESCA Tech, Inc.
 3747 North Booth Street
 Milwaukee, WI 53212
 e-mail: cservice@esca-tech.com

Emergency Telephone Number

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

GHS Label element

Hazard Statements: This chemical does not meet the hazardous criteria set forth by OSHA Hazard Communication Standard (29 CFR 1910.1200).

Precautionary Statements: Avoid contact with eyes.
 For external use only.

Other Hazards: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Inorganic salt	Proprietary-	< 3

Note: If Chemical Name/CAS Number 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.

4. FIRST AID MEASURES

First Aid Measures:

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
 In case of skin contact: Wash with plenty of water. If skin irritation occurs: Get medical advice.
 If swallowed: Rinse mouth. Drink 1 – 2 glasses of water. If symptoms occur: Get medical advice.
 If inhaled: Remove to fresh air.
 Symptoms: May cause eye or skin irritation. Ingestion may cause nausea.
 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 determined.
Specific hazards during firefighting:	Will not support combustion.
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:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Do not take internally. Wash hands after handling.
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 °F (4 - 38 °C), out of direct sunlight and away from extreme heat.
Incompatible materials:	Strong acids and oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Eyewash station.
Individual protection measures, such as personal protective equipment	
Eye/face protection:	Avoid contact with eyes. Safety glasses or goggles.
Skin and body protection:	No protective equipment is needed under normal use conditions.
Respiratory protection:	No protective equipment is needed under normal use conditions.
Hygiene measures:	No specific measures identified.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Color:	Colorless to pale yellow liquid
Odor:	Odorless
Odor threshold:	Not determined
pH:	5.0 – 6.0

Melting point/Freezing point:	Not determined
Boiling point/Boiling range:	~100 °C/ 212 °F
Flash point:	Not applicable.
Evaporation rate:	Not established
Flammability (solid, gas):	Not applicable
Upper Flammability Limits:	Not determined
Lower Flammability Limits:	Not determined
Vapor pressure:	Not established
Vapor density:	<1 (same as water) (Air = 1)
Specific gravity:	1.0 (Water = 1)
Water solubility:	Completely soluble
Solubility in other solvents:	Not determined
Partition coefficient:	Not determined
Auto-ignition temperature:	Not determined
Density:	8.34 lb/gal
Decomposition temperature:	Not determined
Viscosity:	Not determined

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.
Conditions to avoid:	See section 7 Handling and Storage. Keep out of reach of children.
Incompatible materials:	Strong acid, strong alkalis and oxidizing agents.
Hazardous decomposition products:	Thermal decomposition may produce carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Potential Health Effects

Eyes:	May cause eye irritation.
Skin:	Health injuries are not expected under normal use.
Ingestion:	Health injuries are not expected under normal use.
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:	Not expected.
Carcinogenicity:	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is not classified as environmentally hazardous.

Toxicity to fish:	Not determined.
Toxicity to daphnia and other aquatic invertebrates:	Not determined.
Toxicity to algae:	Not determined.
Persistence and Degradability:	Not determined.
Bioaccumulative Potential:	Not determined.
Mobility in soil:	Not determined.
Other Adverse Effects:	Not determined.

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Waste Treatment Methods

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CLEAN WATER ACT (RQ, 40 CFR):	Not applicable
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:	Not applicable
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.

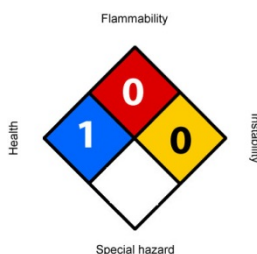
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