



## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.

Printing Date 01/26/2015

### 1. Identification

Preparation trade name: Leak Test Vial  
Product number: AC-LSA0001A  
Product description: Leak Test Vial  
Application: Test Leak Detector functionality  
Manufacturer: Techno Tools Corporation  
2651 West 81<sup>st</sup> Street

### 2. Hazards Identification

Most important hazards: None  
Specific hazards: None  
GHS Label elements: Not required  
Hazard pictograms: Not required

### 3. Composition

Proprietary Formula Gel: proprietary formulation, dye, calcium acetate, water mixture  
CAS #: Not assigned—product is a mixture.

### 4. First aid measures

Skin contact: Flush exposed area with warm water.  
Eye contact: Flush eye with large amounts of warm water.  
Ingestion: Drink sips of warm water or milk.

### 5. Fire fighting measures

Suitable extinguishing media: N/A  
Unsuitable extinguishing media: N/A  
Special hazards in fire: No known toxic combustion products or special fire fighting hazards.  
Required special protective equipment for fire-fighters: N/A

### 6. Accidental release measures

Personal precautions: None  
Environmental precautions: None  
Methods for cleaning: Absorb on vermiculite, paper or other absorbent.

### 7. Handling and storage

Handling: Avoid contact with skin and eyes. Do not ingest.  
Storage: Store in cool dry place

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### 8. Exposure Controls

Engineering measures: N/A  
Control Parameters: Avoid contact with skin and eyes  
Personal protection equipment: Not required  
Eye protection: Not required  
Hand protection: Not applicable  
Hygiene measures: Not required

### 9. Physical and chemical properties

Appearance: Green gel  
Odor: none  
pH: 7.8 – 8.5  
Boiling point: N/A  
Melting point: N/A  
Flashpoint: >200 degrees F  
Explosive properties: N/A  
Vapor pressure: N/A  
Vapor density: N/A  
Solubility in water: Moderate

### 10. Stability and reactivity

Conditions to avoid: This product is stable. Hazardous polymerization will not occur.  
Materials to avoid: Heat, open flame  
Hazardous decomposition products: None known.

### 11. Toxicological information

No information is available at this time.

### 12. Ecological information

No information is available at this time.

### 13. Disposal Considerations

The purchaser is responsible for proper waste disposal of empty, partial or full vials. Any disposal practice must be in compliance with local, state, or federal laws and regulations.

### 14. Transport information

This package conforms to 49 CFR 173.4

### 15. Regulatory information

OSHA STATUS: This product is not hazardous under the criteria of the Federal OSHA hazard Communication Standard 29 CFR 1910.1200.

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### **16. Other Information**

Preparation trade name: Leak Test Vial

Reference number: AC-LSA0001A

Date of preparation / last revision: 01/26/2015

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

**GENERAL®**

# Digital Refrigerant Leak Detector with Pump

The modern, electronic way to maintain mobile and stationary air conditioners, refrigerators, chillers and heat pumps. New proprietary semiconductor sensor detects many new ozone layer-friendly refrigerants approved under the U.S. EPA's Significant New Alternatives Policy (SNAP).

## Features:

- Proprietary sensor with lifetime of >300 hours of operation (ten years' normal use)
- Detects all commercially available HFC, HFO, HC, HCFC, and CFC refrigerants
- Triple-redundant leak indication (loud fast beep, bright flashing LED, digital leak size reading)
- True electro-mechanical pump draws in samples, increasing sensitivity
- Sensitivity of 0.05 oz./year (1.4 g/year) to R-134a
- Automatic calibration and reset to ambient levels
- Three sensitivity levels
- Fast warmup
- Padded hard plastic case
- Garage-durable construction
- Leak test vial sampler
- Made in U.S.A.
- CE and ROHS approved



Keep your AC system running at peak efficiency



No. RLD400



# Digital Refrigerant Leak Detector with Pump

## Why look for refrigerant leaks?

There are three reasons to detect and repair leaks of refrigerant gases from stationary and mobile air conditioners, refrigeration systems and heat pumps:

1. Leaks allow air and moisture to enter an A/C system or chiller. Moisture can react with refrigerant to form corrosive acids and sludge that can damage a compressor, plug up orifice tubes, and/or eat pinholes in evaporators and condensers.
2. Refrigerant is expensive. It may seem cheaper to keep recharging your system with refrigerant than fix a leak—but it isn't in the long run. And A/C systems and chillers that aren't fully charged won't cool efficiently and thus waste money (electricity-powered systems) or fuel (vehicle systems).
3. Most refrigerants deplete the ozone layer that blocks the Sun's harmful ultraviolet radiation. In the U.S., the Clean Air Act of 1990 and later amendments require owners or operators of refrigeration and air-conditioning equipment with refrigerant charges greater than 50 pounds to repair leaks within 30 days when those leaks result in the loss of more than 15% (comfort cooling) or 35% (commercial cooling) of the charge over a 12-month period.

## Specifications:

### Refrigerants Detected:

R-134a, R-410a, R-404a, R-407c, R-507, CFC-12 (R-12 or Freon), R-22, R-290, R-441A, R-600a, R-1234yf

### Sensitivities:

0.05 oz./yr (1.4 g/yr) to R-134a; 0.025 oz./yr (0.7g/yr) to R-22

**Sensor Type:** Proprietary solid electrolyte semiconductor

**Warmup Time:** 17-20 seconds

**Display Type, Size:** 7-segment red LED, 0.6 in. (15mm) high

### Dimensions of Instrument:

6.8 x 2.6 x 2.2 in. (173 x 66 x 56mm) w/17 in. (432mm) probe

**Weight of Instrument:** 1.5 lb. (680g)

**Complies with SAE Standards J2791 and J2913, European Standard EN14624 and ASHRAE 173-2012**

**Power Source:** 4 "AA" batteries (included)

**Battery Life:** 5 hours continuous operation (typical)

## Includes:

Leak Test Vial, (5) Spare Sensor Filters, Batteries, Hard Plastic Carrying Case, User's Manual, 2 Year Limited Warranty includes sensor



No. RLD400



**Stopping refrigerant leaks improves gas mileage**

Discover other diagnostic and testing tools on our website.

