Section 1. CHEMICAL PRODUCT SECTION

Product Name: R134a Refrigerant
Date Prepared: 05-2015

Manufacturer: Weitron, Inc.
801 Pencader Dr.
Newark, DE 19702 USA
PH: (800)-398-3816
PH: (302)-455-6655
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Section 2. HAZARDS IDENTIFICATION

PRODUCT HAZARD CATEGORY: Gases under pressure. Liquefied Gas
LABEL CONTENT: Pictogram

SIGNAL WORD: WARNING
HAZARDOUS WARNINGS: Contains gas under pressure; may explode if heated.
HAZARDOUS PREVENTION MEASURES: Protect from sunlight. Store in a well-ventilated place.
OTHER HAZARDS: Misuse or intentional inhalation abuse may lead to death without warning.
Vapor is heavier than air and can cause suffocation by reducing oxygen available for breathing.
Rapid evaporation of the liquid may cause frostbite.

Weitron branded products that are considered and labeled “Consumer Commodities” are exempt from GHS labeling guidelines when used in the workplace in the same way and the same frequency of use as a consumer would use the product.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Description</th>
<th>%</th>
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<tbody>
<tr>
<td>811-97-2</td>
<td>1,1,1,2-Tetrafluoroethane</td>
<td>100%</td>
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This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.
Emergency Overview:
Contents under pressure. “Frostbite-like” effects may occur if the liquid or escaping vapors contact the eyes or skin. Inhalation overexposure may cause: Central nervous system depression with dizziness, confusion, loss of coordination, drowsiness, unconsciousness or death. Suffocation if air is displaced by vapors.

Potential Health Effects:
Eyes: Frostbite-like” effects may occur if the liquid or escaping vapors contact the eyes.
Skin: Frostbite-like” effects may occur if the liquid or escaping vapors contact the skin.
Inhalation: Inhalation overexposure may cause: Central nervous system depression with dizziness, confusion, loss of coordination, drowsiness, unconsciousness or death. Suffocation, if air is displaced by vapors.
Ingestion: Nausea and diarrhea are possible.

Carcinogenicity: No known cancer hazards.

HMIS Classification:
Health 1
Flammability 0
Reactivity 1

Section 4. FIRST AID MEASURES
Eye Contact:
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact:
Wash affected area immediately with large amounts of soap or water for 15 minutes. Remove contaminated clothing and shoes, and wash before reusing. Treat affected area for frostbite if necessary by gently warming. May irritate skin. If irritation continues contact Physician.

Inhalation:
If inhaled, immediately remove to area with fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Contact Physician.

Ingestion:
Is not considered a potential route of exposure.

Advice to Physician
Because of the possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with caution and only in situations of emergency life support.

Section 5. FIRE FIGHTING MEASURES
Flash Point:
Does not flash

Flammable limits in Air
LEL: None
Autoignition Temperature:  
>750°C

Extinguishing Media:  
Water, carbon dioxide, foam or dry powder.

Fire & Explosion Hazards:  
Not flammable at ambient temperatures and atmospheric pressure. Material will become combustible when mixed with air under pressure and exposed to ignition sources. Hazardous thermal decomposition products (Carbon oxides, Hydrogen Fluoride, Carbonyl fluoride)

Fire Fighting Instructions:  
Contents under pressure and container may rupture when exposed to high temperature. Product may act as asphyxiate. As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Contain runoff water. Contaminated extinguishing water must be disposed of in accordance with applicable regulations. Avoid breathing smoke, fumes, and decomposition products.

Section 6.  
ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)  
Evacuate personnel to safe areas. Ventilate area. Wear appropriate personal protective equipment

Initial Containment  
Contain spilled material. Do not allow material to enter soil or surface water.  
Product evaporates

Spill Procedures  
Contain spilled material. Large spillage should be dammed-off and pumped into containers.

Section 7.  
HANDLING AND STORAGE

Handling (Personnel)  
Do not breathe vapors. Do not get in eyes, on skin or clothing. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Use appropriate personal protective equipment when using material. Do not puncture or drop cans. Do not expose cans to high heat or open flame.

Handling (Physical Aspects)  
Avoid contact with strong oxidizing agents. Avoid contact with eyes and skin. Keep away from children.

Storage Precautions  
Protect containers from physical damage. Do not Puncture, incinerate or store cans above 120ºF. Keep in cool dry area out of direct sunlight.
Section 8. EXPOSURE CONTROL/PERS ONAL PROTECTION

Engineering Controls:
Good general ventilation should be sufficient under normal use conditions.

Eye/Face Protective Requirements:
Wear safety glasses, splash goggles or face shield. Where contact with this material is likely, eye protection is recommended.

Skin Protection:
Wear protective gloves to minimize skin contamination. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

Respiratory Protection:
Under normal use conditions, with adequate ventilation, no special handling equipment is required.

Miscellaneous
Use good personal hygiene practices; limit exposure to product whenever possible to minimize clean-up.

Exposure Guidelines
Exposure Limit
Values
1,1,1,2-Tetrafluoroethane
AEL 1,000 ppm 8 & 12 hr. TWA

AEL is the Acceptable Exposure Limit determined by Dupont

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquefied Gas
Color: Colorless
Odor: Slight ethereal odor
Boiling Point: -26.1°C (-15.0°F)
Solubility in Water: 1.5g/L at 77°F (25°C)
Vapor Pressure: 85.8 psia @ 70°F
Vapor Gravity: Not Determined
Specific Gravity: 1.208 at 77°F (25°C)
Liquid Density: 1.206 g/cm³ @ 25°C
PH: <7
Volatile Organic Compounds (VOC) Not Determined

Flash point & additional flammability data found in section 5.

Section 10. STABILITY AND REACTIVITY

Stability
This compound is stable at ambient conditions.

Polymerization
Hazardous polymerization will not occur

Conditions to avoid
Do not mix with air above atmospheric pressure or oxygen. Do not puncture, incinerate or store cans above 120ºF. Keep in cool dry area out of direct sunlight.

Incompatibility with other materials
Avoid contact with strong oxidizing agents. Incompatible with alkali or alkaline earth metals – powdered aluminum, Zink, etc.

Decomposition
Avoid high temperatures or open flames which can decompose material forming hydrofluoric acid and possibly carbonyl fluoride.

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**Section 11. TOXICOLOGY INFORMATION**

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<thead>
<tr>
<th></th>
<th>Dermal</th>
<th>Oral</th>
<th>Inhalation 4 h LC50</th>
<th>Inhalation LOAEC</th>
<th>Skin Irritation</th>
<th>Eye Irritation</th>
<th>Skin Sensitization</th>
<th>Repeated dose toxicity</th>
<th>Carcinogenicity</th>
<th>Mutagenicity</th>
<th>Reproductive toxicity</th>
<th>Teratogenicity</th>
<th>Further information</th>
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<td></td>
<td>: not applicable</td>
<td>: not applicable</td>
<td>: 567000ppm, rat</td>
<td>: 75000ppm, dog</td>
<td>: slight irritation, rabbit</td>
<td>: slight irritation, rabbit</td>
<td>: slight irritation on laboratory animals, guinea pig</td>
<td>: Did not cause sensitization on laboratory animals, guinea pig</td>
<td>: No toxicologically significant effects were found</td>
<td>: Overall weight of evidence indicates that the substance is not carcinogenic</td>
<td>: Did no cause genetic damage in animals</td>
<td>: Did not cause genetic damage in cultured mammalian cells</td>
<td>: Did not cause genetic damage in cultured bacterial cells</td>
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**Section 12. ECOLOGICAL INFORMATION**

Aqua Toxicity
96 h LC50: Oncohynchus mykiss (rainbow trout) 450 mg/L
72 h EC50: Algae >118 mg/L
48 h EC50: Daphnia magna (water flea) 980 mg/L

Information based on data obtained from similar substances.

Section 13. DISPOSAL CONSIDERATIONS

Waste Disposal
Can be used after re-conditioning. Recover by distillation or remove to a permitted waste disposal facility. Comply with Federal, State, and local regulations.

Environmental Hazards
Empty Pressure Vessels should be returned to the supplier.

Section 14. TRANSPORTATION INFORMATION

US DOT Information:
Shipping Name: 1,1,1,2-Tetrafluoroethane
Product Label: 1,1,1,2 Tetrafluoroethane
Shipping Class: 2.2
UN/NA #: 3159

ICAO/IATA
Shipping Name: 1,1,1,2-tetrafluoroethane
Shipping Class: 2.2
UN/NA#: UN3159
Exceptions: Can qualify for limited quantity under special provisions
Other information: Non-flammable

IMDG
Shipping Name: 1,1,1,2-Tetrafluoroethane
Shipping Class: 2.2
UN/NA#: UN3159
Exceptions: Can qualify for limited quantity under special provisions
Other information: Non-flammable
Other Transportation Information:
The Transport information may vary with the container and mode of shipment.

Section 15. REGULATORY INFORMATION

Miscellaneous Information
This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA)

This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS)

This material or all of its components are listed on the Canadian Domestic Substances List (DSL)

Section 16 OTHER INFORMATION
To the best of our knowledge, the information contained herein is accurate. **However, neither Weitron Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.** Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.