# Safety Data Sheet

**Issue Date** 11-Apr-2015 **Revision Date** 3-August-2015 **Version** 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**
**Product Name** United 177 SUNSHINE IN A CAN

**Other means of identification**
**SDS#** UNITED-177

**Recommended use of the chemical And restrictions on use**
**Recommended use** Spray and Wipe Degreaser-Cleaner
**Uses Advised Against** For industrial and institutional use only.

**Details of the supplier of the safety data sheet**
**Company Name**
United Laboratories, Inc.
320 37th Avenue
St. Charles, IL 60174
www.unitedlabsinc.com
www.unitedlabsinc.ca

**Emergency telephone number**
**Emergency Telephone** 800-323-2594 (to reorder)
INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|---|---|
| Gas under pressure | Liquefied Gas |

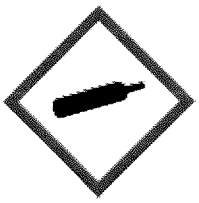
**Label elements**

**Emergency Overview**

# Warning

**Hazard statements**

Contains gas under pressure; may explode if heated.



**Prevention**
Observe good industrial hygiene practices. Keep away from heat/sparks/open flames. No smoking. Wash hands thoroughly.

**Response**
Wash hands after handling. Call poison control center if for any reason you feel unwell.

**Storage**
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

**Disposal**
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)**
Not classified.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|---|---|---|---|
| 1,1,1,2-Tetrafloroethane | 811-97-2 | 2.5-10 | * |
| Other components below reportable levels | | 90-100 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

**First aid measures**

**Skin Contact** Immediately take off all contaminated clothing. Wash off with soap and water. Get medical attention if irritation develops or persists.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, do not delay irrigation or attempt to remove the lens. Get medical attention if irritation develops or persists. Continue rinsing.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

**Ingestion** Do not use mouth-to-mouth method if victim ingested the substance. No need for first aid is anticipated if material is swallowed.

**Most important symptoms and effects, both acute and delayed**

Direct contact with eyes may cause temporary irritation.

**Indication of any immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically. If you feel unwell, seek medical advice (show the label when possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this SDS to doctor in attendance.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**
Foam. Water fog. Carbon Dioxide and dry chemical powder.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical**
Contents under pressure. Pressurized container may explode when exposed to heat or flame. Fire may produce irritating, corrosive and/or toxic gases.

**Protective equipment and precautions for firefighters**
Firefighters should wear full protective clothing including SCBA. Structural firefighters protective clothing will only provide limited protection. SCBA and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions**
In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. In case of fire: Stop leak if safe to do so. Move container from fire area if you do it without risk. Do not direct water at source of leak or safety devices; icing may occur. Move containers from fire, if you can do so at no risk. Containers should be cooled with water to prevent vapor pressure build up.

**Specific Methods**
In an event of fire and/or explosion do not breathe fumes.

**Hazardous Combustion Products**
None known.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

| | |
|---|---|
| **Personal precautions** | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak Keep out of low areas. Consider initial downwind evacuation for at least 500 meters (1/3 mile). Ventilate closed spaces before entering them. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Stay upwind. Emergency personnel need SCBA equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised in significant spillages cannot be contained. For personal protection, see Section 8 of the SDS. |

**Environmental precautions**

| | |
|---|---|
| **Environmental precautions** | Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. |

**Methods and material for containment and cleaning up**

| | |
|---|---|
| **Methods for containment and cleaning up** | Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent entry into waterways, sewers, basement or confined areas. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. For waste disposal, see Section 13 of the SDS. After removal flush contaminated area thoroughly with water. This material and its container must be disposed of as hazardous waste. |

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling**

Vapors may for explosive mixtures with air. May be ignited by open flame. Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind or expose to heat, sparks, flame and other sources of ignition. All equipment used when handling the product should be grounded. Do not reuse empty containers. Use only in ventilated areas. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid prolonged exposure. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. Keep out of reach of children. Wear appropriate personal protective equipment. Handle and open container with care. Observe good industrial hygiene practices. Level 1 Aerosol.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Store locked up. Pressurized container. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep in well-ventilated place. Do not handle or store near open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in cool place is recommended. Keep in an area equipped with sprinklers. Do not expose to direct sunlight, exceeding 50°C/122°F. Store in well-ventilated area. Store away from incompatible materials. Level 1 Aerosol.

**Incompatible materials**

None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

No Exposure limits noted for ingredient(s).

| Chemical Name | ACGIH / OSHA | WEEL |
|---|---|---|
| 1,1,1,2-Tetrafluoroethane (811-97-2) | - | TWA: 4240 mg/m$^3$<br>TWA: 1000 ppm |

*NIOSH IDLH Immediately Dangerous to Life or Health*

**Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**

No exposure standards allocated.

**Appropriate engineering controls**

**Engineering Controls**

Good general ventilation (typically 10 air changed per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face/hand protection**

Wear safety glasses with side shields (goggles). Wear appropriate chemical resistant

**Skin protection**

No special protective equipment required. Wear appropriate thermal protective clothing, when necessary.

**Respiratory protection**

If permissible levels are exceeded wear a NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

**General Hygiene**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Clean contaminated clothing before reuse. When using do not smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Aerosol |
| **Appearance** | Compressed liquefied gas |
| **Color** | Clear – pale yellow |
| **Odor** | Light botanical scent |

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | 9.1-10.1 estimated | |
| **Specific Gravity** | 0.998 estimated | |
| **Percent volatile** | 89.92% | |
| **Viscosity** | No Information available. | |
| **Melting point/freezing point** | No Information available. | |
| **Flash point** | -156.0°F (100°C) | |
| **Boiling point and Boiling range** | 100°C (212°F) | |
| **Evaporation rate** | No information available. | |
| **Flammability (solid, gas)** | No information available. | |
| **Upper flammability limit:** | No information available. | |
| **Lower flammability limit:** | No information available. | |
| **Density** | 0.90 g/cm$^3$ estimated. | |
| **Flammability class** | Flammable IB estimated. | |
| **Heat of combustion** | 2.41 kJ/g estimated | |
| **Heat of combustion (NFPA 30B)** | 0.49 kJ/g estimated | |
| **Vapor pressure** | 91-101 psig@ 70°F | |
| **Vapor density** | No information available. | |
| **Relative density** | 0.998 g/cm$^3$ estimated. | |
| **Water solubility** | Partially. | |
| **Partition coefficient** | No information available. | |
| **Auto-ignition temperature** | No information available. | |
| **Decomposition temperature** | No information available. | |
| **VOC (weight %)** | <1% | |

## 10. STABILITY AND REACTIVITY

**Reactivity**
This product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability**
Material is stable at normal conditions. No hazards to be especially mentioned. Risk of explosion. Risk of ignition.

**Possibility of Hazardous Reactions**
Hazardous polymerization does not occur.

**Conditions to avoid**
Avoid temperatures exceeding the flash point. Avoid heat, spark, open flames and other ignition sources. Avoid contact with incompatible materials. Aerosol containers are unstable at temperatures above 49°C.

**Hazardous Decomposition Products**
No hazardous decomposition products are known.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

| | |
|---|---|
| **Inhalation** | Prolonged inhalation may be harmful. |
| **Eye contact** | Direct contact with eyes may cause temporary irritation. |
| **Skin Contact** | No adverse effects due to skin contact are expected. |
| **Ingestion** | Expected to be a low ingestion hazard. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Direct contact with eyes may cause temporary irritation. |

**Information on toxicological effects**

**Acute toxicity**

| Chemical Name | Dermal LD50 | Oral LD540 | Inhalation LC50 |
|---|---|---|---|
| 1,1,1,2-Tetrafluoroethane 811-97-2 | - | - | 73111 mg/l, 4 hours (Rat) |

*Estimates for product may be based on additional component data not shown.

| | |
|---|---|
| **Skin/Eye irritation** | Not expected to be hazardous to skin. Direct contact with eyes may cause temporary irritation. |
| **Sensitization** | This product is not expected to cause skin sensitization. |
| **Germ cell mutagenicity** | Not expected to be hazardous by OSHA criteria. |
| **Carcinogenicity** | This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA. Not expected to be hazardous by WHMIS criteria. |
| **Reproductive toxicity** | No expected to cause reproductive or developmental effects. |
| **Aspiration hazard** | Not likely due to the form of the product. |
| **Chronic effects** | Prolonged inhalation may be harmful. Not expected to be hazardous by WHMIS criteria. |
| **STOT-Single and repeated exposure** | No information available. |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

This product has no known eco-toxicological effects. This material is not expected to be harmful to aquatic life.

**Persistence and degradability**

Component or components of this product are not biodegradable.

**Bioaccumulation**

This product is not expected to bioaccumulate.

**Partition coefficient n-octanol / water (log Kow)**

1,1,1,2-Tetrafluoroethane 1.274

**Soil Mobility**

No information available.

**Other adverse effects**

No other adverse environmental effects.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

| | |
|---|---|
| **Disposal of wastes** | Consult authorities before disposal. Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not puncture, incinerate or crush. This material and its container must be dispersed of a hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not dispose of in a sewer. If discarded, this product is considered a RCRA ignitable waste, D001. Disposal should be in accordance with applicable regional, national and local laws and regulations. Containers may be hazardous when empty. |
| **Local disposal regulations** | Disposal in accordance with all applicable regulations. |
| **Hazardous waste code** | D001: Waste flammable material with a flash point <140 °F. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| **Waste from residues/unused products** | Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (See disposal instructions). |
| **Contaminated packaging** | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warning even after container is emptied. Do not re-use empty containers. |

## 14. TRANSPORT INFORMATION

This product meets the exception requirements of Section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity-ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/2020 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**DOT**

| | |
|---|---|
| **UN/ID No.** | UN1950 |
| **Proper shipping name** | Aerosols, Limited Quantity |
| **Transport hazard class(es)** | 2.2 |
| **Label(s)** | 2.2 |
| **Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |
| **Packaging exceptions** | 306 |

**IATA**

| | |
|---|---|
| **UN/ID No.** | UN1950 |
| **UN proper shipping name** | Aerosols, Limited Quantity |
| **Transport hazard class(es)** | 2.2 |
| **Label(s)** | 2.2 |
| **Environmental hazards** | No |
| **ERG Code** | 2L |
| **Passenger/cargo aircraft** | Allowed |
| **Packaging exceptions** | Limited Quantity |

**IMDG**

| | |
|---|---|
| **UN/ID No.** | UN1950 |
| **Proper shipping name** | Aerosols, Limited Quantity |
| **Transport hazard class** | 2.2 |
| **Label(s)** | 2.2 |
| **Environmental Class** | No |
| **Marine Pollutant** | |
| | Read safety instructions, SDS and emergency procedures before handling. |
| **Packaging exceptions** | Limited Quantity |

## 15. REGULATORY INFORMATION

### International Inventories
Canada, United States and Puerto Rico - Yes*

### Legend:
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory-Yes*

*A Yes indicates that all components of this product comply with the inventory requirements administered by the governing county(s). A No indicates that one or more components of the product are no listed or exempt from listing on the inventory administered by the governing country(s).

### US Federal Regulations

**Superfund Amendments and Reauthorization Act of 1986**

| | |
|---|---|
| **Acute health hazard** | No |
| **Delayed hazard** | No |
| **Fire hazard** | No |
| **Sudden release of pressure hazard** | Yes |
| **Reactive Hazard** | No |

**SARA 302 Extremely hazardous substance**
None known.

**SARA 313 (TRI reporting)**
Not regulated.

**SARA 311/312**
No.

**CERCLA**
This material, as supplied, does not contain a substance regulated as a hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

**Clean Air Act Section 112 Hazardous Air Pollutants and Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
Not regulated.

**Safe Drinking Water Act**
Not regulated.

### US State Regulations

| Chemical | New Jersey | Massachusetts | Pennsylvania/Rhode Island* |
|---|---|---|---|
| 1,1,1,2-Tetrafluoroethane<br>811-97-2 | - | X | -<br>X* |

**California Proposition 65**
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health hazards** - | **Flammability** - | **Reactivity** - | **Physical and Chemical Properties** - |
| **HMIS** | **Health hazards** 1 | **Flammability** 2 | **Reactivity** 0 | **Personal protection** B |

**Issue Date** 11-Apr-2015
**Revision Date** 03-August-2015
**Revision Note**
No Information available

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and 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 in any process, unless specified in the text.**

End of Safety Data Sheet