1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product Name
United 189 LIFT OFF!

Other means of identification
SDS# UNITED-189

Recommended use of the chemical
And restrictions on use
Wood and Metal Finish Remover
Recommended use
For institutional and industrial 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)

<table>
<thead>
<tr>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Aerosol</td>
</tr>
<tr>
<td>Liquefied Gas</td>
</tr>
<tr>
<td>Skin Irritant</td>
</tr>
<tr>
<td>Eye Irritant</td>
</tr>
<tr>
<td>Carcinogenicity</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (repeated exposure)</td>
</tr>
<tr>
<td>Acute Toxicity Oral</td>
</tr>
</tbody>
</table>

Label elements

Danger

Emergency Overview

Hazard statements
Extremely Flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed. Causes skin and eye irritation. Suspected of causing cancer. Causes damage to eyes and central nervous system with prolonged or repeated exposure.

This product contains the following percentage of chemicals of unknown toxicity: 1%.

**Appearance**  Clear  
**Physical state**  Aerosol  
**Odor**  Odorless

**Precautionary Statements – Prevention**  
Do not handle until all safety precautions have been read and understood. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Use only outdoors and in a well-ventilated area. Wash hands thoroughly after handling. Keep away from heat, sparks, open flames and hot surfaces – no smoking. Do not eat, drink, or smoke when using this product. Do not breathe fumes, mist, vapors, or spray.

**Precautionary Statements – Response**  
If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical attention /advice. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. Wear protective gloves and eye protection. If exposed or concerned: Get medical advice or attention.

**Precautionary Statements – Storage**  
Store in well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.

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

**Hazard(s) not otherwise classified (HNOC)**  
No information available.

**Environmental hazards**  
No information available.

**Supplemental information**  
**Hazard statement**  
No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride</td>
<td>75-09-2</td>
<td>40-70%</td>
<td>*</td>
</tr>
<tr>
<td>Propane/ n-Butane</td>
<td>68476-86-8</td>
<td>10-30%</td>
<td>*</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>7-13%</td>
<td>*</td>
</tr>
</tbody>
</table>

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

### 4. FIRST AID MEASURES
First Aid Measures

**Skin Contact**
Immediately wash with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation persists.

**Eye contact**
Immediately flush with water for 15 minutes while holding eyelids open. Seek medical attention or advice if irritation develops.

**Inhalation**
Remove individual to fresh air. If not breathing administer artificial respiration. Seek immediate attention.

**Ingestion**
If swallowed: Rinse mouth. Do not induce vomiting. Seek medical attention or advice.

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

Eyes: redness, tearing, blurred vision. Skin: defatting and dermatitis. Inhalation: Irritation. Oral: Abdominal irritation, nausea, vomiting and diarrhea. Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

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

Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Dry Chemical. Carbon dioxide. Foam.

**Unsuitable Extinguishing Media** Water spray/stream.

**Specific Hazards Arising from the Chemical:**
Wear NIOSH approved SCBA with a full piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Cool fire exposed containers with water fog to prevent bursting.

**General Fire Hazards**
Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

**Protective equipment and precautions for firefighters**
Firefighters must use self-contained breathing apparatus and full body protective clothing must be worn in case of fire.

**Hazardous Combustion Products**
Oxides of carbon, chlorine, hydrogen chloride and phosgene.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions**
Refer to Section 8 for proper Personal Protective Equipment.

**Environmental precautions**
None Known.

**RCRA Status**
Waste solvent likely considered U080 (Methylene Chloride), hazardous, under RCRA, however product should be fully characterized prior to disposal. (40 CFR 261).

**Methods and material for containment and cleaning up**
Methods for containment and cleaning up
Remove sources of ignition such as pilot lights. Material is heavier than air and can settle in low lying area in flammable concentrations, ventilate area. Product will undergo rapid evaporation. Use absorbent on spill sweep to clean. Small releases may be wiped up with wiped up with wiping material. Dispose of residue in accordance with federal, state and local guidelines. Offer drums for recycling. Do not reuse empty container. Smaller containers should be rinsed and placed in trash collection.

Waste Disposal
Dispose of in accordance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling
Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Store in well ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Use gloves, lab coat or apron, splash goggles, and use a vapor respirator approved/certified respirator or equivalent when ventilation is not adequate.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Store locked up. Avoid exposure to direct sunlight, exceeding 50°C/122°F. Store in well-ventilated area. Do not pierce or burn, even after use.

Incompatible materials
Strong oxidizers, strong caustics, plastics, rubber, nitric acid, water + heat, and chemically active metals, such as aluminum and magnesium powder, sodium, potassium and lithium. Avoid contact with open flames and electrical arcs. Liquid methylene chloride will attach some forms of plastics, rubber and coatings.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
No Exposure limits noted for ingredient(s).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane/n-Butane 68476-86-8</td>
<td>1000 ppm</td>
<td>1000 ppm</td>
<td>-</td>
</tr>
<tr>
<td>Methylene Chloride 75-09-2</td>
<td>50 ppm</td>
<td>25 ppm</td>
<td>-</td>
</tr>
<tr>
<td>Methyl Alcohol 67-56-1</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td>-</td>
</tr>
</tbody>
</table>

NIOSH IDLH  Immediately Dangerous to Life or Health

Biological limited values
No information available.

Appropriate engineering controls

Engineering Controls
Material is heavier than air. Material may concentrate in low lying areas. Normal, forced ventilation required to meet TLV requirements. Local exhaust ventilation is generally preferred.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses.

Skin and body protection
Chemical resistant gloves.

Respiratory protection
Wear NIOSH/MSHA approved vapor respiratory protection if used in confined, poorly ventilated areas.
General Hygiene
When using, do not eat, drink or smoke. Always observe good personal hygiene measures. Do not handle until all safety precautions have been read and understood.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks + Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.185</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Boiling point.boiling range</td>
<td>&gt;104</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&gt;2</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>Flammable aerosol.</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit – lower</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit – upper</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&gt;100</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>&gt;2</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>14%</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>(n-octanol/water)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Volatile including water</td>
<td>98%</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>VOC (weight %)</td>
<td>33%</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Chemically active metals and acids.

Chemical stability
Material is stable at normal conditions.

Possibility of Hazardous Reactions
None Known.

Conditions to avoid
Temperatures greater than 122°F and sources of ignition.

Incompatible materials
Strong oxidizers, strong caustics, plastics, rubber, nitric acid, water + heat, and chemically active metals, such as aluminum and magnesium powder, sodium, potassium, and lithium. Avoid contact with open flames and electrical arcs. Liquid methylene chloride will attack some forms of plastics, rubber and coating.

Hazardous Decomposition Products
Oxides of carbon, chlorine, hydrogen chloride and phosgene.
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eyes, Ingestion, Inhalation and Skin.

Product Information

**Inhalation**

Irritation to respiratory tract, dizziness, headache, nausea, depression of central nervous system, prolonged exposure may cause unconsciousness, heart effects, liver effects, kidney effects and death.

**Eye contact**

Causes severe eye irritation, redness, tearing, pain, may cause eye damage.

**Skin Contact**

Irritation likely, redness and pain. May cause localized defatting, blistering with prolonged skin contact. May be absorbed through the skin.

**Ingestion**

Nausea, vomiting, headaches, abdominal pain, diarrhea, dizziness, tremor, drowsiness, pulmonary edemas, absorption through the gastrointestinal tract may produce symptoms of CNS depression ranging from unconsciousness to death.

**Symptoms related to the physical, chemical and toxicological characteristics**

Excessive exposure will aggravate preexisting disorders of eyes, skin, respiratory, liver, kidney, cardiovascular system, pulmonary illnesses, or central nervous system.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Oral</th>
<th>Dermal</th>
<th>Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride 75-09-2</td>
<td>1600 mg/kg (Rat)</td>
<td>-</td>
<td>52 gm/m³</td>
</tr>
<tr>
<td>Methyl Alcohol 67-56-1</td>
<td>5628 mg/kg</td>
<td>20000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on toxicological effects

**Acute toxicity**


**Skin/Eye irritation**

May cause skin/eye irritation.

**Sensitization**

This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

IARC: 2B-Possible. OSHA: Yes. NTP: 2 – Anticipated. ACGIH: A3 – Animal Carcinogen.

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No Information available.

**Aspiration hazard**

No information available.

**Chronic hazard**

Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Methylene Chloride (75-09-3-2) and Methyl Alcohol (67-56-2-1). The half-life of methanol in surface water ranges from 24-168 hrs.

**Persistence/Degradability**

Component or components of this product are not biodegradable.

**Bioaccumulation**

This product is not expected to bioaccumulate.

**Soil Mobility**

This product is mobile in soil.

**Other Adverse Effects**

This material is toxic to aquatic life.
13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal Considerations
Dispose of in accordance with federal, state, and local regulations. Do not reuse container and recycle or place in trash collection. Drums and pails should be offered for recycling. Keep out of reach of children.

US RCRA Hazardous Waste
U List: Reference
Waste solvent likely considered U080 (Methylene Chloride), hazardous, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

Waste from residues/unused products
Disposal should be in accordance with local regulations. (See disposal instructions).

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

<table>
<thead>
<tr>
<th>UN/ID No.</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Aerosols, Ltd., Qty.</td>
</tr>
<tr>
<td>Labels required</td>
<td>2.1 (6.1)</td>
</tr>
<tr>
<td>Packaging exceptions</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

IATA

<table>
<thead>
<tr>
<th>UN/ID No.</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Forbidden by USDOT Regulations</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

IMDG

<table>
<thead>
<tr>
<th>UN/ID No.</th>
<th>UN1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Aerosols, Ltd., Qty.</td>
</tr>
<tr>
<td>Transport hazard Class(es)</td>
<td>2.1 (6.1)</td>
</tr>
</tbody>
</table>

Environmental Class
Marine Pollutant.

15. REGULATORY INFORMATION

International Inventories
Class D-1B material causing immediate and serious toxic effects. Class D-2A: Material causing other toxic effects (very toxic). DSCL (EEC): R22-harmful if swallowed. R38-irritating to skin. R41-Risk of serious damage to eyes. R45 may cause cancer.

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory - Yes all chemicals listed.
DSL/NDSL - Canadian Domestic Substances List – Yes Non-Domestic Substances List - No

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Methylene Chloride 67-56-1.

SARA 311/312 Hazard Categories
- Acute health hazard: Yes
- Chronic Health Hazard: Yes
- Fire hazard: Yes
Sudden release of pressure hazard: No
Reactive Hazard: No

CERCLA Hazardous Substance List (40 CFR 302.4)
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). Methanol (67-56-1), reportable quantity=5000 lbs. Methylene Chloride (75-09-2), reportable quantity=1000 lbs.

US State Regulations
This product does contain a chemical known to the state of California to cause birth defects or other reproductive harm or cancer.

California Proposition 65
This product does contain a chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm: Methylene Chloride (75-09-2).

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey/Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Methanol</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

NFPA

<table>
<thead>
<tr>
<th>Health hazards</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Physical/Chemical Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

HMIS

<table>
<thead>
<tr>
<th>Health hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

Issue Date: 11-Apr-2015
Revision Date: 07-August-2015
Revision Note: New Format

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