SAFETY DATA SHEET (SDS)

Section 1: IDENTIFICATION

<table>
<thead>
<tr>
<th>TRADE NAME</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gebauer’s Spray and Stretch</td>
<td>Gebauer Company</td>
</tr>
<tr>
<td></td>
<td>4444 East 153 Street</td>
</tr>
<tr>
<td></td>
<td>Cleveland, Ohio 44128</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CONTACT INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,3,3-Pentafluoropropane</td>
<td>Toll Free: (800) 321-9348</td>
</tr>
<tr>
<td>1,1,1,2-Tetrafluoroethane</td>
<td>Phone: (216) 581-3030</td>
</tr>
<tr>
<td></td>
<td>Fax: (216) 581-4970</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RECOMMENDED USE</th>
<th>FORMULA</th>
<th>CHEMICAL FAMILY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topical Anesthetic</td>
<td>CHF₂₃C₂F₇ / CH₃FCF₃</td>
<td>Halogenated Hydrocarbon</td>
</tr>
</tbody>
</table>

Section 2: HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Signal Word</th>
<th>Hazard Statement</th>
<th>Pictogram</th>
<th>Precautionary Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed Gas</td>
<td>Warning</td>
<td>Contains gas under pressure; may explode if heated</td>
<td></td>
<td>Store is a well-ventilated place.</td>
</tr>
<tr>
<td>Eye Irritation (Category 2B)</td>
<td>Warning</td>
<td>Causes eye irritation</td>
<td>N/A</td>
<td>If product gets into eyes, see the Section 4: First Aid Measures.</td>
</tr>
</tbody>
</table>

Potential Acute Health Effects

<table>
<thead>
<tr>
<th>Cause</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>When oxygen levels in air are reduced to 12-14% by displacement, symptoms of asphyxiation, loss of coordination, increased pulse rate and deeper respiration will occur. At high levels, cardiac arrhythmia may occur.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Unlikely route of exposure due to gaseous nature. Discomfort due to volatility would be expected.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Liquid contact can cause irritation and frostbite.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Over application could cause frostbite. Liquid contact is non-irritating.</td>
</tr>
</tbody>
</table>

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Concentration</th>
<th>OSHA PEL</th>
<th>ACGIH TLV-TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,3,3-Pentafluoropropane</td>
<td>460-73-1</td>
<td>95%</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1,1,1,2-Tetrafluoroethane</td>
<td>811-97-1</td>
<td>5%</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Section 4: FIRST AID MEASURES

<table>
<thead>
<tr>
<th>Injury</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Immediately remove patient to fresh air. If breathing has stopped, give artificial respiration. Use oxygen as required, provided a qualified operator is available. DO NOT give epinephrine (adrenaline). Get medical attention immediately.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Unlikely route of exposure due to gaseous nature. DO NOT induce vomiting unless instructed to do so by a physician. DO NOT give stimulants. Get medical attention immediately.</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>If there is evidence of frostbite seek medical attention.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Immediately flush eyes with copious amounts of water for at least 15 minutes (in case of frostbite water should be lukewarm, not hot) lifting lids occasionally to facilitate irrigation. Get medical attention.</td>
</tr>
</tbody>
</table>

Section 5: FIRE FIGHTING MEASURES

**Special Fire Fighting Procedures**

Fire fighters should wear self-contained, NIOSH approved breathing apparatus for protection against possible toxic decomposition products. Proper eye and skin protection should be provided. Use spray to keep fire-exposed containers cool.

**Unusual Fire and Explosion Hazards**

Not flammable at ambient temperatures and atmospheric pressure. However this material will become combustible when mixed with air under pressure and exposed to strong ignition sources contact with certain reactive metals may result in formation of explosive or exothermic reactions under specific conditions (e.g. very high temperatures and/or appropriate pressures).

Section 6: ACCIDENTAL RELEASE MEASURES

**Spill and Leak Response**

If a large quantity of containers the product has been released, evacuate unprotected personnel. Protected personnel should eliminate all sources of ignition and shut off leak, if without risk, and provide ventilation.

**Waste Disposal Method**

Comply with federal, state and local laws.
Section 7: HANDLING AND STORAGE

Storage Precautions
Store in cool, dry, well ventilated area of low fire risk. Protect against physical damage. Do not subject to temperatures above 120°F (50°C).

Handling Precautions
Use in well-ventilated areas. Do not use near temperatures above 120°F (50°C).

Section 8: EXPOSURE CONTROLS – PERSONAL PROTECTION

Engineering Controls
Provide local ventilation at filling zones and where leakage is probable. Use with adequate ventilation.

Respiratory Protection
None generally required for adequately ventilated work situations. For accidental release in confined space, where the concentration may be above the PEL of 1,000 ppm, use a NIOSH approved, self contained, positive pressure respirator for emergencies and in situations where air may be displaced by vapors.

Skin Protection
Use protective, impervious gloves and clothing made of neoprene, nitrile or butyl rubber if prolonged or repeated contact with liquid is anticipated. Wash clothing promptly, if wet. Remove any non-impermeable clothing and wash before re-use.

Eye Protection
For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles. Contact lenses should not be worn under such conditions.

Exposure Limits
OSHA PEL: None
ACGIH TLV: None

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 44.6°F (7.0°C)
Evaporation Rate: (Carbon Tetrachloride = 1) >1
Vapor Density: Air=1 BP 4.7

Vapor Pressure (@72°F): 10.8 psig
Specific Gravity (@72°F): 1.33
Appearance: Colorless Liquid
Odor: Faint Ethereal, Sweet

Flash Point: None
Flammable Limits in Air: (by Volume) Nonflammable
Flash Point: None

Section 10: STABILITY AND REACTIVITY

Stability
Product is stable under normal conditions.

Hazardous Decomposition Products
Halogen and halogen acids; and possibly carbonyl halides.

Incompatible Materials
Strong acids and alkalis, reactive metals e.g., powdered or freshly abraded aluminum (may cause strong exothermic reaction), sodium, potassium, calcium, magnesium, zinc, molten aluminum, barium and lithium shavings. Strong oxidizing agents.

Hazardous Polymerization
Does not occur.

Conditions to Avoid
Avoid sources of ignition such as sparks, hot spots, welding flames and lighted cigarettes which may yield toxic and/or corrosive decomposition products. Do not mix with oxygen or air above atmospheric pressure.

Section 11: TOXICOLOGICAL INFORMATION

Dermal Irritation
Non-irritation and not a skin sensitizer.

Eye Irritation
Very slight irritant.

Inhalation
Evidence of transient anesthetic effect. 1,1,1,2-Tetrafluoroethane: Lowest observed adverse effect level for cardiac sensitization was 75,000 ppm.

Section 12: ECOLOGICAL INFORMATION

Environmental Stability
Gas is dissipated rapidly in a ventilated area.

Effect on Aquatic Life
CAS 40-73-1: Acute Toxicity to Rainbow Trout (Limit Test): NOEC >10 mg/L; 96 hr. EC_{50}>8108 mg/L
CAS 811-97-1: Acute Toxicity to Rainbow Trout (Limit Test): 96 hr. LC_{50} is 450 mg/L

Section 13: DISPOSAL CONSIDERATIONS

Waste disposal must be in accordance with appropriate Federal, State and local regulations.

Section 14: TRANSPORT INFORMATION

DOT
UN Number: UN 3163
Proper Shipping Name: Liquefied Gas, N.O.S (1,1,1,3,3-Pentafluoropropane, 1,1,1,2-Tetrafluoroethane)
Class: 2.2, Non-Flammable Gas
Hazard Label: Limited Quantities

IATA
UN Number: UN 3163
Proper Shipping Name: Liquefied Gas, N.O.S (1,1,1,3,3-Pentafluoropropane, 1,1,1,2-Tetrafluoroethane)
Class: 2.2, Non-Flammable Gas
Hazard Label: Air-Specific Limited Quantities

Section 15: REGULATORY INFORMATION

USA TSCA
Not Listed

Europe EINECS
Not Listed

SARA Tittle III
RQ’s and EHS TPQ: Not Listed. Sections 311, 312: Not Listed

WHMIS Classification (Canada)
SDS meets requirements of SPR

European Union
Not Listed as Hazardous Substance

Additional Regulatory Information
Contains greenhouse gases, which may contribute to global warming. Regulated in the US under Section 612 (SNAP) of the Clean Air Act and 40 CFR Part 82, subpart G.

Section 16: OTHER INFORMATION

This SDS was revised and updated as of 08/20/2013 by Gebauer Company.