1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Powered LDS* and Powered MULTIFIRE ENDO GIA*60 Gas Bottle Power Unit with Surgigas* Mixture

Product Description: Gas Bottle Power Unit

Manufacturer/Supplier: United States Surgical, a Division of TYCO Healthcare Group LP

Address: 195 McDermott Road
North Haven, CT 06473
USA

Phone Number: (203) 492-5000 (customer service)

Chemtrec Number: (800) 424-9300 (for emergencies only)

Revision Date: August 1, 2007

MSDS Date: April 24, 2000

Safety Data Sheet according to EC Direction 2001/58/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

EU Main Hazards
Not classified as hazardous

Routes of Entry
- Eye contact
- Inhalation
- Skin contact

Carcinogenic Status
Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs
- Central Nervous System
- Skin
- Eye
- Kidney
- Liver
- Heart

Health Effects - Eyes
Liquid or cold vapor may cause frostbite and corneal damage.

Health Effects - Skin
Liquid or cold vapor may cause frostbite.

Health Effects - Ingestion
Ingestion is not a possible route of exposure.

Health Effects - Inhalation
Exposure to vapor at high concentrations may have the following effects:
- light headedness
- dizziness
- difficulty with breathing
- drowsiness
- nausea
- mental confusion
- heart irregularities
- hilarity
- central nervous system depression
- kidney damage
- liver damage
- may prove suddenly fatal

Individuals with pre-existing heart disease will be at increased risk. Acts as a simple asphyxiant; oxygen concentrations below 19.5% can cause symptoms of oxygen deficiency, leading to loss of consciousness if exposure continues.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS#/EC#</th>
<th>Concentration</th>
<th>R Phrases</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentafluoroethane</td>
<td>354-33-6</td>
<td></td>
<td>R-None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>206-557-8</td>
<td></td>
<td>R-None</td>
<td>None</td>
</tr>
<tr>
<td>Tetrafluoroethane</td>
<td>811-97-2</td>
<td></td>
<td>R-None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>212-377-0</td>
<td></td>
<td>R-None</td>
<td>None</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>&lt; 3%</td>
<td>R11</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td>200-578-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Revision Date: August 1, 2007
4. FIRST AID MEASURES

Eyes
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin
Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

Ingestion
Ingestion is not considered a potential route of exposure.

Inhalation
Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Advice to Physicians
Monitor for systemic secondary effects on liver and kidney; support and treat.

5. FIRE-FIGHTING MEASURES

Extinguishing Media
Not readily combustible. Select extinguishing agent appropriate to other materials involved. Keep containers and surroundings cool with water spray.

Unusual Fire and Explosion Hazards
This product may give rise to hazardous fumes in a fire. Containers may explode in heat of fire.

Protective Equipment for Fire-Fighting
Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Remove leaking cylinder to a safe place. Eliminate all sources of ignition. Ventilate the area. Vapors can accumulate in low areas. Leaks inside confined spaces may cause suffocation.

7. HANDLING AND STORAGE

Adequate ventilation should be provided if there is risk of vapor build-up. Never apply flame or localized heat directly to any part of the cylinder. Store away from sources of heat or ignition. Cylinders in use should be in open air out of direct sunlight or in a well ventilated room. Storage temperature should be kept below 52 °C. Storage area should be: - cool - dry - well ventilated - under cover

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards
Pentafluoroethane
Simple asphyxiant. An exposure limit of 1000ppm is recommended.

Tetrafluoroethane
Simple asphyxiant. An exposure limit of 1000ppm is recommended.

Ethanol
UK EH40: OES 1000ppm (1900mg/m3) 8h TWA.
ACGIH: TLV 1000ppm (1880mg/m3) 8h TWA.
Engineering Control Measures
There should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes or odor becomes apparent, use local exhaust ventilation.

Respiratory Protection
Use self contained breathing apparatus (SCBA) or positive pressure air line with mask and escape pack in areas where oxygen concentration is less than 19.5%. Air purifying respirators will not provide protection.

Hand Protection
Wear rubber gloves. Avoid contact with skin.

Eye Protection
Chemical goggles or safety glasses with side shields. Avoid contact with eyes.

Body Protection
Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquefied gas under pressure</td>
</tr>
<tr>
<td>Color</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight Ethereal</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Range/Point (°C/F)</td>
<td>100 / 212 (for ethanol)</td>
</tr>
<tr>
<td>Flash Point (PMCC) (°C/F)</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Slightly soluble</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>Heavier than air</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions.

Conditions to Avoid
- Heat - High temperatures - Static discharge - Exposure to direct sunlight

Materials to Avoid
- alkali or alkaline earth metal (ex. aluminum, zinc, etc.) - Strong oxidizing agents

Hazardous Polymerization
Will not occur.

Hazardous Decomposition Products
- oxides of carbon - carbonyl fluoride - Hydrofluoric acid

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Simple asphyxiant

Chronic Toxicity/Carcinogenicity
This product is not expected to cause long term adverse health effects.

Genotoxicity
No relevant studies identified. This product is not expected to cause any mutagenic effects.

Reproductive/Developmental Toxicity
Ethanol: Maternal alcohol consumption was associated with lower birth weight, lower offspring weight
12. ECOLOGICAL INFORMATION

**Mobility**
(Pentafluoroethane)
If released to soil, an estimated Koc of 170 indicates pentafluoroethane will have moderate mobility.
(Tetrafluoroethane)
It will display moderate to high mobility in soil.

**Persistence/Degradability**
(Pentafluoroethane)
Highly fluorinated compounds such as pentafluoroethane are not expected to biodegrade rapidly.

**Bio-accumulation**
(Pentafluoroethane)
An estimated BCF of 3.1 suggests the potential for bioconcentration of pentafluoroethane in aquatic organisms is low.
(Tetrafluoroethane)
1,1,1,2-Tetrafluoroethane will not bioconcentrate in fish and aquatic organisms

**Ecotoxicity**
(Ethanol)
Tests on the following species gave a 96h LC50 of 13000 mg/litre: - rainbow trout
Tests on the following species gave a 96h LC50 of 15300 mg/litre: - fathead minnow

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local and national regulations. Do not cut, puncture or weld on or near to the container.

14. TRANSPORT INFORMATION

**DOT CFR 172.101 Data**
Compressed Gas, N.O.S. (Pentafluoroethane, Tetrafluoroethane)
2.2, UN1956, II

**UN Proper Shipping Name**
Compressed Gas, N.O.S. (Pentafluoroethane, Tetrafluoroethane)

**UN Class**
(2.2) Non-Flammable Gas

**UN Number**
UN1956

**UN Packaging Group**
II

NOTE: This material is packaged and distributed by United States Surgical in conformance with criteria for consumer commodity(49 CFR 171.8 and section 173.306)

15. REGULATORY INFORMATION

**EU Label Information**
Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments (2001/60/EC and 2006/8/EC).

**EU Hazard Symbol and Indication of Danger.**
Not classified as hazardous

**R phrases**
None

**S phrases**
None
TSCA Listing
This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory.

EINECS Listing
All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or the European List of New Chemical Substances (ELINCS) or are exempt from listing.

DSL/NDSL (Canadian) Listing
All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt from listing.

WHMIS Classification
A
This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

MA Right To Know Law
All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at or above the de minimus concentration include: - ethyl alcohol

PA Right To Know Law
This product contains the following chemicals found on the Pennsylvania Hazardous Substance List: - ethyl alcohol

NJ Right To Know Law
This product contains the following chemicals found on the NJ Right To Know Hazardous Substance List: - ethyl alcohol

California Proposition 65
This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 302 (EHS)
This product does not contain any chemicals subject to SARA Title III Section 302.

SARA Title III Sect. 304
This product does not contain any chemicals subject to SARA Title III Section 304.

SARA Title III Sect. 311/312 Categorization
Immediate (Acute) Health Hazard
Pressure Hazard

15. REGULATORY INFORMATION

SARA Title III Sect. 313
This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings
NFPA Code for Health - 1
NFPA Code for Flammability - 0
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards - None

HMIS Ratings
HMIS Code for Flammability - 0
HMIS Code for Health - 1
HMIS Code for Reactivity - 0
16. OTHER INFORMATION

HMIS Code for Personal Protection - See Section 8

Abbreviations
N/A: Denotes no applicable information found or available
CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
R: Risk
S: Safety
Xi: Irritant
Xn: Harmful
F: Highly Flammable

Prepared By: EnviroNet LLC.

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