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### OPTI Calibration Gas - Low Pressure

#### IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

OPTI Calibration Gas - Low Pressure Product name(s)

Product code(s) BP7162

Identified uses Laboratories

OPTI Medical Systems Inc. Company

235 Hembree Park Drive

Roswell, GA 30076, USA

Telephone 1-800-490-6784 1-770-510-4445 Fax

24 hour Emergency Phone # CHEMTREC 1-800-424-9300

Outside U.S +(00)-1-703-527-3887

Australia +(61)-290372994 New Zealand +(64)-98010034 South Africa 0-800-983-611

United Kingdom +(44)-870-8200418

#### 2. HAZARDS IDENTIFICATION

#### **GHS Classification**

Gases Under Pressure, Compressed gas



Pictogram

Signal Word Hazard statement(s) H280

Contains gas under pressure; may explode if heated. Precautionary statement(s) P410+P403 Protect from sunlight. Store in a well-ventilated place.

### Classification according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008...

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

This substance is not classified as dangerous according to Directive 67/548/EEC.

#### Other hazards - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Nitrogen	7727-37-9	231-783-9	-	QW9700000	80%
Oxygen	7782-44-7				14%
Carbon dioxide	124-38-9				6%

## 4. FIRST AID MEASURES

#### **Description of first aid measures**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



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IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

IF SWALLOWED: Rinse mouth.

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

no data available

#### 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides.

### Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

#### **Further information**

no data available

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wash hands thoroughly after handling.

### **Environmental precautions**

No special environmental precautions required.

#### Methods and materials for containment and cleaning up

Sweep up and shovel.

#### Reference to other sections

For disposal see section 13

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Wash hands thoroughly after handling.

### Conditions for safe storage

Keep container tightly closed.

#### Specific end use

no data available

#### 8. EXPOSURE CONTROLS / PERSONNAL PROTECTION



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**Control parameters** 

Component	CAS-No.	Value	Control parameters	Basis
Carbon dioxide	124-38-9	STEL	30,000 ppm (54,000 mg/m3)	Australia. Workplace Exposure Standards for
		TWA	5,000 ppm (9,000 mg/m3)	Airborne Contaminants.
		STEL	30,000 ppm (54,000 mg/m3)	Canada. Alberta Occupational Health and
		TWA	5,000 ppm (9,000 mg/m3)	Safety Code
		TWA	5,000 ppm	Canada. British Columbia OEL
		STEL	15,000 ppm	
		TWAEV	5,000 ppm (9,000 mg/m3)	Canada. Quebec OELs
		STEV	30,000 ppm (54,000 mg/m3)	
		TWA	5,000 ppm (9,000 mg/m3)	Europe. Indicative occupational exposure limit
				values.
		STEL	15,000ppm (27,400 mg/m3)	UK. EH40 WEL – Workplace Exposure Limits
		TWA	5,000 ppm (9,000 mg/m3)	
		TWA	5,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	30,000 ppm	
		TWA	5,000 ppm (9,000 mg/m3)	USA. OSHA – Table Z-1 Limits for Air
		STEL	30,000 ppm (54,000 mg/m3)	Contaminants – 1910.1000
		TWA	5,000 ppm (9,000 mg/m3)	USA. NIOSH Recommended Exposure Limits
		STEL	30,000 ppm (54,000 mg/m3)	

#### **Exposure controls**

Handle in accordance with good industrial hygiene and safety practice.

#### Personal protective equipment

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Skin protection

Eye/face protection

Handle with gloves.

Safety glasses.

Body protection Wear protective clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form gas

Color (Colour) no data available Odor (Odour) no data available Odor Threshold no data available pΗ no data available Melting point no data available Initial boiling point no data available Flash point not applicable Evaporation rate no data available Flammability not applicable Upper/lower flammability or explosive limits no data available Vapor (Vapour) pressure no data available Vapor density no data available Relative density no data available Water solubility no data available Partition coefficient: n-octanol/water no data available Autoignition temperature no data available Decomposition temperature no data available



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Viscosity no data available
Explosive properties no data available
Oxidizing properties no data available

## 10. STABILITY AND REACTIVITY

Reactivity no data available

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions no data available Conditions to avoid no data available Incompatible materials no data available

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific Target Organ Toxicity –Single Exposure	no data available
Specific Target Organ Toxicity –Repeated Exposure	no data available
Aspiration hazard	no data available

# 12. ECOLOGICAL INFORMATION

Toxicity to fish	no data available
Toxicity to daphnia and other aquatic	no data available
invertebrates.	
Toxicity to algae	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety
	assessment not required/not conducted.

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging Dispose of as unused product.

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

14. TRANSPORT INFORMATION

DOT (US) Not a dangerous good



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ADR/RID Not a dangerous good IMDG Not a dangerous good ICAO/IATA Not a dangerous good

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

**HMIS Rating** 

Health hazard 0 Flammability 0 Physical hazard 0