

## Material Safety Data Sheet

Revision Date: 10/15/2013

### Section 1: Product and Company Identification

**Product Name:** Biofreeze (360°) Spray  
**Chemical Family:** Mixture

**Recommended Use:** Topical Pain Reliever  
**Restrictions on Use:** No Data

**Company:** Performance Health, Inc.  
1245 Home Avenue  
Akron, OH 44310

**Telephone:** (330) 633-8460 (Only available during normal office hours.)

**Email:** web@biofreeze.com

<b>Emergency Telephone:</b>	(800) 321-2135
<b>CHEMTREC (Transportation):</b>	(800) 424-9300
<b>U.S. Coast Guard National Response Center:</b>	(800) 424-8802

### Section 2: Hazards Identification

**Emergency Overview:**

Warning: Flammable. May be harmful if swallowed. May cause eye irritation. Contains gas under pressure; may explode if heated.

**GHS Classification:**

Flammable Liquid, Category 3  
Compressed Gas

**GHS Label Elements:**

**Pictograms:**



**Signal Word:** Warning

**Hazard Statements:**

H226: Flammable liquid and vapor  
H280: Contains gas under pressure; may explode if heated.

**Precautionary Statements:**

P210: Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

P233: Keep container tightly closed.

P403 + P235: Store in a well-ventilated place. Keep cool.

P410 + P403: Protect from sunlight. Store in a well-ventilated place.

**Classification According to Directive 1999/45/EC:**

**European Economic Community Information:** This product meets the definition of the following hazard class as defined by the European Economic Community Guidelines.

**EU Classification:** [R10] Flammable**EU Risk Phrases:** R10: Flammable (Biofreeze Spray (360°)); RAs: Asphyxiant in high concentrations (compressed gas in packaging).**EU Safety Phrases:** S2: Keep out of reach of children; S7: Keep container tightly closed; S9: Keep container in well-ventilated place; S16: Keep away from sources of ignition – No smoking; S23: Do not breathe gas.**EU Symbols:**

None

**Section 3: Composition/Information on Ingredients**

Chemical Ingredients:	CAS Number:	EC Number	Index Number	Percent Range:	Classification of Ingredient according to 67/548/EEC*	Classification of Ingredient according to Regulation (EC) No 1272/2008 [CLP]*
Ethyl Alcohol	64-17-5	200-578-6	603-002-00-5	40 - 70%	F; R11	Flam. Liq. 2 H225
L-Menthol	2216-51-5	218-690-9	Not Available	7 – 13%	Not classified. Substance with a community workplace exposure limit.	

\*Legend: F: Highly flammable  
R11: Highly flammable  
H225: Highly flammable liquid and vapor

NOTE: Packaging contains compressed nitrogen gas (CAS #7727-37-9; EC # 231-783-9) in sealed can.

**Section 4: First Aid Measures**

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if victim feels unwell.

**Skin Contact:** Not applicable.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:** Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

### Section 5: Fire Fighting Measures

**Suitable Extinguishing Media:** Water, carbon dioxide, dry chemical, or foam

**Specific Hazards in Case of Fire:** Nitrogen oxides may form under fire conditions. Container may explode if exposed to heat. Water spray can be used to cool fire-exposed containers.

**Special Protective Equipment for Fire-Fighters:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

### Section 6: Accidental Release Measures

**Personal Precautions:** Eliminate all ignition sources and heat sources if safe to do so. Take off contaminated clothing and wash before reuse. Avoid breathing gas. Ensure adequate ventilation.

**Environmental Precautions:** Do not flush into surface water or sanitary sewer system.

**Methods for Containment/Cleaning Up:** Contain spillage and collect with non-combustible absorbent material. Disposal should be in accordance with all applicable local, state and federal regulations.

### Section 7: Handling and Storage

**Handling:** Wash hands thoroughly after handling. Keep away from heat, sparks, open flames, hot surfaces, and sources of ignition. No smoking. Keep out of reach of children. Protect container from damage. Do not puncture, crush or incinerate container.

**Storage:** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Protect container from damage. Do not puncture, crush or incinerate container.

### Section 8: Exposure Controls/Personal Protection

#### US Exposure Limits:

Chemical Ingredients:	CAS Number:	OSHA PEL	NIOSH REL	ACGIH TLV
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA) 3300 ppm (IDLH)	1000 ppm
L-Menthol	2216-51-5	Not Established	Not Established	Not Established

**Other Exposure Limits:**

## Ethyl Alcohol:

Hong Kong:	1000 ppm TWA; 1880 mg/m <sup>3</sup> TWA
India:	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Indonesia:	1000 ppm TWA; 1880 mg/m <sup>3</sup> TWA
Korea:	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Malaysia:	1000 ppm TWA; 1880 mg/m <sup>3</sup> TWA
Philippines:	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Singapore:	1000 ppm TWA; 1880 mg/m <sup>3</sup> TWA
Taiwan:	1000 ppm STEL; 1880 mg/m <sup>3</sup> STEL; 1000 ppm TWA; 1880 mg/m <sup>3</sup> TWA
Vietnam:	3000 mg/m <sup>3</sup> STEL; 1000 mg/m <sup>3</sup> TWA
Russia:	2000 mg/m <sup>3</sup> STEL (vapor); 1000 mg/m <sup>3</sup> TWA (vapor)
Austria:	2000 ppm STEL; 3800 mg/m <sup>3</sup> STEL (3 x 60 min) 1000 ppm MAK; 1900 mg/m <sup>3</sup> MAK;
Belgium:	1000 ppm TWA; 1907 mg/m <sup>3</sup> TWA
Bulgaria:	5.0 mg/m <sup>3</sup> Maximum Admissible Hazardous Contaminant Level (MAHCL) – 30 Minute; 1000.0 mg/m <sup>3</sup> TWA
Czech Republic:	1000 mg/m <sup>3</sup> TWA; 3000 mg/m <sup>3</sup> Ceiling
Denmark:	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Estonia:	1000 ppm STEL; 1900 mg/m <sup>3</sup> STEL; 500 ppm TWA; 1000 mg/m <sup>3</sup> TWA
Finland:	1300 ppm STEL; 2500 mg/m <sup>3</sup> STEL; 1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
France:	5000 ppm STEL; 9500 mg/m <sup>3</sup> STEL; 1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Germany:	1000 ppm Peak; 1920 mg/m <sup>3</sup> Peak; 500 ppm MAK; 960 mg/m <sup>3</sup> MAK 500 ppm TWA; 960 mg/m <sup>3</sup> TWA
Greece:	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Hungary:	7600 mg/m <sup>3</sup> STEL; 1900 mg/m <sup>3</sup> TWA
Ireland:	1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Italy:	1000 ppm STEL
Latvia:	1000 mg/m <sup>3</sup> TWA
Lithuania:	1000 ppm STEL; 1900 mg/m <sup>3</sup> STEL; 500 ppm TWA; 1000 mg/m <sup>3</sup> TWA
Netherlands:	20000 mg/m <sup>3</sup> Life Threatening Value (LBV); 1000 mg/m <sup>3</sup> Prescribed Target Value (VRV); 5000 mg/m <sup>3</sup> Warning Limit Value (AGW); 1900 mg/m <sup>3</sup> STEL; 260 mg/m <sup>3</sup> TWA
Poland:	1900 mg/m <sup>3</sup> TWA
Portugal:	1000 ppm TWA
Romania:	5000 ppm STEL; 9500 mg/m <sup>3</sup> STEL; 1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Slovakia:	1920 mg/m <sup>3</sup> Ceiling; 500 ppm TWA; 960 mg/m <sup>3</sup> TWA
Slovenia:	4000 ppm STEL; 7600 mg/m <sup>3</sup> STEL; 1000 ppm TWA; 1900 mg/m <sup>3</sup> TWA
Spain:	1000 ppm TWA; 1910 mg/m <sup>3</sup> TWA
Sweden:	1000 ppm STEL; 1900 mg/m <sup>3</sup> STEL; 500 ppm TLV; 1000 mg/m <sup>3</sup> TLV
United Kingdom:	3000 ppm STEL (calculated); 5760 mg/m <sup>3</sup> STEL (calculated); 1000 ppm TWA; 1920 mg/m <sup>3</sup> TWA

## L-Menthol:

Russia:	1 mg/m <sup>3</sup> (aerosol and vapor)
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**Engineering Controls:** Use only in a well-ventilated area.

**Personal Protective Equipment:**

**Eye Protection:** None required under normal conditions of use.

**Hand Protection:** Not Applicable

**Skin and Body Protection:** Not Applicable

**Respiratory Protection:** None required under normal conditions of use.

**Hygiene Measures:** Wash hands thoroughly after handling. Use only in a well-ventilated area.

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**Section 9: Physical and Chemical Properties**

<b>Physical State:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Menthol Scented
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	6.0 – 7.0
<b>Melting/Freezing Point:</b>	Not Available
<b>Initial Boiling Point:</b>	Not Available
<b>Flash Point:</b>	≥73.4°F (≥23°C)
<b>Evaporation Rate:</b>	Not Available
<b>Flammability (solid, gas):</b>	Not Applicable
<b>Lower Explosive Limit:</b>	Not Available
<b>Upper Explosive Limit:</b>	Not Available
<b>Lower Flammability Limit:</b>	Not Available
<b>Upper Flammability Limit:</b>	Not Available
<b>Vapor Pressure:</b>	Not Available
<b>Vapor Density:</b>	Not Available
<b>Relative Density:</b>	0.880 - 0.890
<b>Water Solubility:</b>	Complete
<b>Partition Coefficient:</b>	Not Available
<b>Autoignition Temperature:</b>	Not Available
<b>Decomposition Temperature:</b>	Not Available
<b>Viscosity:</b>	Not Available

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**Section 10: Stability and Reactivity**

**Stability:** Stable under ordinary conditions of use and storage.

**Conditions to Avoid:** Sources of ignition, heat, sunlight, pressure.

**Incompatible Materials:** Strong acids and oxidizers.

**Hazardous Decomposition Products:** Alcoholic vapors, nitrogen oxides.

**Hazardous Polymerization:** Will not occur.

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**Section 11: Toxicological Information**

**Inhalation:** No known effects from Biofreeze (360°) Spray. The container contains compressed gas that may act as an asphyxiant if released.

**Ingestion:** May be harmful if swallowed.

**Skin Contact:** Relieves pain when used in accordance with instructions. Packaging contains compressed gas which is not expected to be released during ordinary conditions of use. However, if a release occurs, contact with rapidly expanding gas may cause burns or frostbite.

**Eye Contact:** May cause eye irritation.

**Chronic Exposure:** No known effects.

**Aggravation of Pre-existing Conditions:** No information found.

**Numerical Measures of Toxicity:** None available.

**Carcinogenicity:** Not known to be as defined by OSHA, IARC or NTP.

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**Section 12: Ecological Information**

This product is safe for the environment at the concentrations predicted under normal use conditions.

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**Section 13: Disposal Considerations**

Dispose of contents/container in accordance with all applicable local, state and federal regulations.

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**Section 14: Transport Information****US DOT:**

Proper Shipping Name:	Aerosols, Flammable
Hazard Class:	2.1 (Flammable gas)
UN Number:	UN1950
Packing Group:	N/A
Labels:	Class 2 Flammable Gas

***If a Limited Quantity (49CFR 173.150) then ship as follows:***

Proper shipping name:	Not required.
Hazard class:	Not required.
UN Number:	Not required.
Labels:	Use ground limited quantity label.

DOT Hazardous Substance RQ:	None/no reportable quantities
DOT Marine Pollutants:	None/no reportable quantities

**IATA:** (All domestic and international Air shipments)

Proper Shipping Name: Aerosols, Flammable  
Hazard Class: Class 2.1  
UN Number: UN1950  
Packing Group: N/A  
Labels: Class 2 Flammable Gas

**If a Limited Quantity (49CFR 173.150) then ship as follows:**

Proper Shipping Name: Aerosols, Flammable  
Hazard Class: Class 2.1  
UN Number: UN1950  
Packing Group: N/A  
Labels: Class 2 Flammable Gas  
Air Limited Quantity

**IMDG** (All domestic and international shipments by Vessel)

Proper Shipping Name: Aerosols, Flammable  
Hazard Class: 2.1 (Flammable gas)  
UN Number: UN1950  
Packing Group: N/A  
Labels: Class 2 Flammable Gas

**If a Limited Quantity (49CFR 173.150) then ship as follows:**

Proper Shipping Name: Aerosols, Flammable  
Hazard Class: Class 2.1  
UN Number: UN1950  
Packing Group: N/A  
Labels: Limited Quantity

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**Section 15: Regulatory Information****US Regulatory Information:**

**OSHA Hazards:** Flammable, Irritant, Contains Compressed Gas

**SARA 302:** None/no reportable quantities.

**SARA 311/312 Hazard Categories:** Fire Hazard, Acute Health Hazard, Sudden Release of Pressure Hazard

**SARA 313:** None/no reportable quantities.

**TSCA:** All substances in this product are listed on the TSCA inventory if required.

**Canadian Regulatory Information:**

**DSL List:** All components of this product comply with registration requirements.

**European Economic Community Information for Constituents:** The following information is available for the components of this product:

Ethyl Alcohol: EU EINECS/ELINCS Number: 200-578-6  
L-Menthol: EU EINECS/ELINCS Number: 218-690-9

**EU Labeling and Classification According to Directive 1999/45/EC:** This product meets the definition of the following hazard class as defined by the European Economic Community Guidelines.

**EU Classification:** [R10] Flammable

**EU Risk Phrases:** R10: Flammable (Biofreeze Spray (360°)); RAs: Asphyxiant in high concentrations (compressed gas in container).

**EU Safety Phrases:** S2: Keep out of reach of children; S7: Keep container tightly closed; S9: Keep container in well-ventilated place; S16: Keep away from sources of ignition – No smoking; S23: Do not breathe gas.

**EU Symbols:**  
None

#### Japanese Information:

**Japanese Minister of International Trade and Industry (MITI) Status:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

**Japanese ENCS Inventory:** The components of this product are on the ENCS Inventory if required.

**Poisonous and Deleterious Substances Control Law:** No component of this product is a listed poisonous, deleterious, or specified poisonous substance under the Poisonous and Deleterious Substances Control Law.

#### Other International Chemical Inventories:

**China Inventory of Existing Chemical Substances (IECSC):** The components of this product are on the IECSC if required.

**Korean Existing Chemicals List (KECL):** The components of this product are on the KECL if required.

**Philippines Inventory of Chemicals and Chemical Substances (PICCS):** The components of this product are on the PICCS if required.

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#### Section 16: Other Information

The information contained in this MSDS is presented in good faith and believed to be accurate based on the information provided. The MSDS does not purport to be all inclusive, and shall be used only as a guide. While Performance Health, Inc. believes that the data contained herein comply with 29 CFR 1910.1200, they are not to be taken as a warranty or representation for which Performance Health, Inc. assumes legal responsibility. Performance Health, Inc. shall not be held liable or accountable for any loss or damage associated with the use of this material and information. The recommended industrial hygiene and safe use, handling, storage, and disposal procedures are believed to be generally applicable. However, since the use, handling, storage, and disposal are beyond Performance Health, Inc. control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability of loss, damage, or expense arising out of the material's improper use.

**HMIS Classification:**  
Health Hazard: 1



Flammability: 2  
Physical Hazards: 0

**Legend:**

**ACGIH:** American Conference of Governmental & Industrial Hygienists  
**CAS:** Chemical Abstract Service  
**CFR:** Code of Federal Regulations  
**DOT:** Department of Transportation  
**DSL/NDL:** Domestic Substances List/Non-Domestic Substances List  
**EC Number:** EINECS Number or ELINCS Number  
**EINECS:** European Inventory of Existing Commercial Chemical Substance  
**ELINCS:** European List of Notified Substance  
**ENCS:** Existing and New Chemical Substances  
**EU:** European Union  
**GHS:** Globally Harmonized System of Chemical Classification and Labelling  
**HMIS:** Hazardous Materials Identification System  
**IARC:** International Agency for the Research of Cancer  
**IATA:** International Air Traffic Association  
**ICAO:** International Civil Aviation Organization  
**IDLH:** Immediately Dangerous to Life or Health  
**IMDG:** International Maritime Dangerous Goods  
**IMO:** International Maritime Organizations  
**MAK:** Maximale Arbeitsplatzkonzentration (Exposure Limit)  
**NIOSH:** National Institute of Occupational Safety and Health  
**NFPA:** National Fire Protection Association  
**NTP:** National Toxicology Program  
**OSHA:** Occupational Safety & Health Administration  
**PEL:** Permissible Exposure Limits  
**RCRA:** Resource Conservation & Recovery Act  
**REL:** Recommended Exposure Limits  
**RQ:** Reportable Quantity  
**RTK:** Right-To-Know  
**SARA:** Superfund Amendments & Reauthorization Act  
**STEL:** Short Term Exposure Limit  
**TLV:** Threshold Limit Value  
**TSCA:** Toxic Substances Control Act  
**TWA:** Time Weighted Average  
**TCLP:** Toxicity Characteristic Leaching Procedure  
**US:** United States  
**VOC:** Volatile Organic Compounds

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