Section 1 - IDENTIFICATION

Product Name: Endo Ice Spray 6 oz.
Product Codes: H05032
Recommended Use: Utilized in dentistry for pulp testing. Federal law restricts this device to sale by or on the order of a Physician.
Restrictions on Use: None noted
Synonyms: None

Distributed by:
Colene Whaledent
235 Ascot Pkwy
Cuyahoga Falls, OH 44223
USA
Phone: 1 330 916 8800
Emergency Phone #: 1 800 535 5053

Section 2 - HAZARD IDENTIFICATION

Classification in accordance with Schedule 1 of Hazardous Products Regulations (HPR) (SOR/2015-17)

Hazard Category, Subcategory: Gases Under Pressure, Liquefied gas
Simple Asphyxiants

GHS Label Elements:
Symbol(s)

Signal Word: Warning

Hazard Statement(s): Contains gas under pressure, may explode if heated
Contains refrigerated gas, may cause cryogenic burns or injury
May displace oxygen and cause rapid suffocation

Precautionary Statement(s):
Prevention: Pressurized container; do not pierce or burn, even after use. Do not breathe mist/spray. Do not get in eyes or on skin. Keep out of reach of children. Use only outdoors or in a well ventilated place.
Response: None specified
Storage: Protect from sunlight. Store in a well ventilated place.
Disposal: Dispose of in accordance with local, state and federal regulations. Do not puncture or incinerate container

Statement(s) of Unknown Acute Toxicity:
Zero % of the mixture consists of ingredient(s) of unknown acute toxicity.

Other hazards which do not result in classification:
In contact with open flame or very hot surface, fluorocarbons may decompose into highly irritating and toxic gases.
Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Percent (w/w%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2 Tetrafluoroethane</td>
<td>811-97-2</td>
<td>60 - 100</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

Inhalation: Remove person to fresh air and keep comfortable for breathing. Administer CPR if victim is not breathing.

Skin: Flush contaminated skin with plenty of soap and water. Remove any contaminated clothing. Get medical attention if symptoms occur. In case of contact with liquid spray, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Wash/clean exposed clothing and shoes before reuse.

Eyes: Irrigate exposed eyes slowly with plenty of room temperature water for at least 15 minutes. If irritation, pain, swelling, lacrimation or photophobia persists, the individual should be seen by a physician.

Ingestion: Not a likely route of exposure.

Most Important Symptoms/Effects

Acute: Eyes and skin, liquid can cause burns, similar to frostbite

Delayed: None noted

Indication of any immediate medical attention and special treatment needed – No additional information noted

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire

Suitable Extinguishing Media: None specified

Unsuitable Extinguishing Media: None Known

Specific Hazards Arising from the Chemical: Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode

Hazardous Combustion Products: Decomposition products may include the following; carbon dioxide, carbon monoxide and halogenated compounds

Special Protective Equipment and Precautions for Firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA). For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn. Use water spray to keep fire exposed containers cool.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Non-emergency personnel – No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through released material. Avoid breathing mist or gas. Provide adequate ventilation. Wear appropriate breathing apparatus when ventilation is inadequate. Wear appropriate Personal protective equipment.

Emergency Responders – If specialized clothing is required to deal with the release, take note of any information in section 8 on suitable and unsuitable materials. Also see the information above for non-emergency personnel.
Environmental Precautions – Avoid dispersal of material and runoff to soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and Materials for Containment and Cleaning Up
- Small spill: Immediately contact emergency personnel. Stop leak if you can do so without risk.
- Large spill: Immediately contact emergency personnel. Stop leak if you can do so without risk. Ventilate contaminated area, remove all sources of ignition. Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling – Use with adequate ventilation. Do not use near ignition sources.
Conditions for Safe Storage, Including Any Incompatibilities – Store in a cool, dry location. Do not store at temperatures over 120°F.
Incompatible Materials: None Noted

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits
Canada and ACGIH have not developed exposure limits for any of this product’s components.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)
If no BEI exist use the following statement:
There are no biological limit values for any of this product's components.

Appropriate Engineering Controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual Protection Measures, such as Personal Protective Equipment
- Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates that this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side shields.
- Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and on the risks involved and should be approved by a specialist before handling this product.
- Respiratory Protection: None required for well ventilated areas
- Glove Recommendations: Chemical-resistant impervious gloves complying with an approved standard should be worn at all times when a risk assessment indicates that this is necessary. If contact with the liquid spray is possible, insulated gloves suitable for low temperatures should be worn.

Protective Materials: If there is a risk of contact with the liquid spray, all protective equipment worn should be suitable for use with extremely low temperature materials.
Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
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</tr>
<tr>
<td>Odour</td>
<td>Vanilla</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>0.5 – 2.0 (n-Butyl acetate = 1)</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>~ 750°C (~1382°F)</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
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<tr>
<td>Upper Explosive Limit</td>
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</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>[air=1] 3.60</td>
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<tr>
<td>Water Solubility</td>
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<tr>
<td>Viscosity</td>
<td>Not available</td>
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<tr>
<td>Solubility (Other)</td>
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<tr>
<td>Molecular Weight</td>
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</tr>
<tr>
<td>Physical State</td>
<td>Gas [Liquefied compressed gas]</td>
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<tr>
<td>pH</td>
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</tr>
<tr>
<td>Boiling Point</td>
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</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
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<tr>
<td>Flash Point</td>
<td>Product does not sustain combustion</td>
</tr>
<tr>
<td>Decomposition temperature</td>
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<tr>
<td>Vapor Pressure</td>
<td>85.80 psig@70°F</td>
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<tr>
<td>Relative Density (water=1)</td>
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</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
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<tr>
<td>Kinematic viscosity</td>
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</tr>
<tr>
<td>Density</td>
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</tbody>
</table>

Section 10 - STABILITY AND REACTIVITY

**Reactivity:** No specific test data related to reactivity is available for this product or its ingredients

**Chemical Stability:** The product is stable

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to Avoid:** Highly toxic fumes may form upon contact with acids or acid fumes

**Incompatible Materials:** Acids and acid fumes, freshly abraded aluminum surfaces (may cause a strong exothermic reaction) and chemically active metals such as, potassium, calcium, powdered aluminum, magnesium and zinc.

**Hazardous decomposition products:** Under certain conditions, fluorocarbon vapors may decompose on contact with flames or hot surfaces, creating a potential hazard of inhalation of toxic decomposition products (fluorocarbons)
Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation: Excessive inhalation may cause drowsiness and dizziness. High concentrations may dilute oxygen in the air resulting in asphyxiation. Non-occupational exposure and accidental or abusive inhalation of aerosols, due to fluorocarbon propellants, have also been documented, the main symptoms being CNS depression and cardiovascular reactions.

Skin Contact: May cause dryness or defatting. Liquid contact can cause frostbite.

Eye Contact: Liquid contact can cause irritation and frostbite

Ingestion: Not a likely route of exposure. If product was sprayed into the mouth, frostbite burns would likely occur.

Symptoms

Immediate Effects: Skin and eyes, frostbite. Inhalation, CNS depression symptoms, dizziness, muscle weakness, lethargy, disorientation.

Delayed Effects: Not available

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Component (same as product, listed below)

Product Toxicity Data

Acute Toxicity Estimate

<table>
<thead>
<tr>
<th>Oral</th>
<th>Not available</th>
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<tbody>
<tr>
<td>Dermal</td>
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<tr>
<td>Inhalation</td>
<td>1,500 g/m³</td>
</tr>
</tbody>
</table>

Irritation/Corrosivity Data: Not available

Respiratory Sensitization: Not available

Dermal Sensitization: Not available

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

Germ Cell Mutagenicity: Not a mutagen

Tumorigenic Data: Not tumorigenic

Reproductive Toxicity: Not a reproductive hazard

Specific Target Organ Toxicity - Single Exposure - not available

Specific Target Organ Toxicity - Repeated Exposure – not available

Aspiration hazard: Not an aspiration hazard

Medical Conditions Aggravated by Exposure – Not available

Additional Data: None
Section 12 - ECOLOGICAL INFORMATION
*Non-Mandatory Section*

Ecotoxicity: Not available
Component Analysis - Aquatic Toxicity – Not available
Persistence and Degradability: Not available
Bioaccumulative Potential: Not available
Mobility in soil: Not available
Other adverse effects: None noted

Section 13 - DISPOSAL CONSIDERATIONS
*Non-Mandatory Section*

Disposal Methods: Dispose of in accordance with local, province and federal regulations
Additional disposal considerations: Dispose if shelf life is exceeded

Section 14 - TRANSPORT INFORMATION
*Non-Mandatory Section*

Emergency Response Guide Number: 126

DOT & TDG Information:
Ground/Rail
UN Number: ID8000
Proper Shipping Name: Consumer Commodity
Hazard Class: Consumer Commodity (DOT-SP-10232)
Packing Group: N/A
Required Label(s):

OR

IMDG (Sea Transportation) Information:
UN Number: UN3159
Proper Shipping Name: 1,1,1,2 Tetrafluoroethane or Refrigerant Gas R 134A
Hazard Class: 2.2 EmS: FC, SV
Packing Group: N/A
Required Label(s):
IATA (Air Transport) Information:
UN Number: UN3159
Proper Shipping Name: 1,1,1,2 Tetrafluoroethane or Refrigerant Gas R 134A
Hazard Class: 2.2
Packing Group: N/A
Required Label(s):

Environmental hazards: None
International Bulk Chemical Code
This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Section 15 - REGULATORY INFORMATION
*Non-Mandatory Section*
The following information is not required to be included

Canada Regulations
CEPA - Priority Substances List
None of this product's components are on the list.
Ozone Depleting Substances
None of this product's components are on the list.
Council of Ministers of the Environment - Soil Quality Guidelines
None of this product's components are on the list.
Council of Ministers of the Environment - Water Quality Guidelines
None of this product's components are on the list.

U.S. Federal Regulations
None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

Component Analysis - Inventory
Not available (Not Available)
Section 16 - OTHER INFORMATION

HMIS and NFPA Ratings are not required but have been included

NFPA Ratings
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Rating
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

REVISION HISTORY

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>ECO #</th>
<th>Chg. By</th>
<th>Appr. By</th>
<th>Description of Change</th>
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<tr>
<td>A</td>
<td>8/07/2014</td>
<td>14306</td>
<td>SBL</td>
<td>SBL</td>
<td>Updated MSDS to GHS/SDS Format. Reference ECO Number for details regarding change</td>
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<tr>
<td>B</td>
<td>2/27/2015</td>
<td>14715</td>
<td>SBL</td>
<td>MV</td>
<td>Removed classification of STOT-SE and related hazard and precautionary statements</td>
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<tr>
<td>C</td>
<td>3/14/2018</td>
<td>PMc</td>
<td></td>
<td></td>
<td>Updated to WHMIS 2015</td>
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</table>

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH-Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average;
UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information
Disclaimer:
The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof. Henry Schein, Inc. however, makes no representations as to the completeness of this information and supplies it on the condition that the person’s receiving same will make their own determination as to its suitability of their purposes prior to use. In no event will Henry Schein, Inc. be responsible for damages of any nature whatsoever resulting from use of or reliance upon information.