HENRY SCHEIN®
DENTAL

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Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product, and must be read in conjunction with the Safety Data Sheet (SDS) attached.

Product Name:	Endo Ice Refrigerant Spray
Manufacturer:	Coltene Whaledent
SDS Expiry:	June 2023
Supplier Details:	Henry Schein New Zealand 23 William Pickering Drive, Albany PO Box 101 140, North Shore, Auckland 0745 Ph. 0800 808 855 www.henryschein.co.nz
Emergency Contacts:	Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours) Phone 111 for Fire, Ambulance or Police
HSNO Class/Category:	2
HSNO Group Standard:	Compressed Gas Mixtures (Flammable) Group Standard 2017 HSR002532
Statements/Pictograms:	As per attached Safety Data Sheet (SDS)
Date Prepared:	This coversheet was prepared on 18 May 2020

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

Safety Data Sheet

COLTENE

Endo Ice® Refrigerant Spray

Coltene Inc. | Internal Document Number: 48200C | Revision Date: June 2018

Section 1 - IDENTIFICATION

Product Names: Endo Ice® Refrigerant Spray
Product Codes: H05032, 40002168
Recommended Use: Utilized in dentistry for pulp testing.
Restrictions on Use: Federal law restricts this device to sale by or on the order of a licensed physician.

Manufacturer
Coltene/Whaledent Inc.
235 Ascot Parkway
Cuyahoga Falls, OH 44223
USA
Phone: 1 330 916 8800
E-mail: info.us@coltene.com
Fax: 1 330 916 7077

Emergency Contact Number:
USA & Canada: 1 800 535 5053

Copies of this SDS can be found at
www.coltene.com

Section 2 - HAZARD(S) IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Hazard Category, Subcategory: Gasses 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.
Wear protective gloves/Protective clothing/eye protection/face protection.

Response: If on skin, thaw frosted parts with lukewarm water. Do not rub affected area. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage: Protect from sunlight. Store in a well ventilated place.

Disposal: Dispose of in accordance with local, state and federal regulations.

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 a very hot surface, fluorocarbons may decompose into highly irritating and toxic gases.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Percent (w/w%)
1,1,1,2 Tetraflouroethane	811-97-2	60-100%

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

General Advice: If exposed or feeling unwell, consult a physician. Move out of affected area.

Inhalation: Move person into fresh air and keep comfortable for breathing. Contact a physician if irritation persists

Skin: 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. Consult a physician if a reaction occurs

Eyes: Flush eyes slowly with room temperature water for at least 15 minutes. Consult a physician if irritation persists.

Ingestion: Not a likely route of exposure.

Most Important Symptoms/Effects: Acute: Eyes and skin, liquid can cause burns, similar to frostbite.

Section 5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Use an extinguishing method suitable for the surrounding fire.

Unsuitable Extinguishing Media: No data available

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.

Special Protective Equipment and Precautions for Firefighters: Explosion Hazard. Fight advanced fires from a distance or protected location. Cool containers with water spray. Wear protective equipment and self-contained breathing apparatus (SCBA) per fire department's SOP.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Avoid breathing mist or gas. Ensure adequate ventilation. For PPE see Section 8.

Methods and Materials for Containment and Cleaning Up: Large spill: Ventilate contaminated area, remove all sources of ignition. See Section 13 for waste disposal.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling: Use with adequate ventilation. Do not use near ignition sources. Always wear protective gloves and eye protection.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry location. Do not store at temperatures over 49°C (120°F). Keep out of reach of children.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits:

There are no reported exposure limits for any of this products components.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI):

There are no biological limit values for any of this product's components.

Appropriate Engineering Controls:

Local ventilation should be adequate. Mechanical ventilation would add additional protection.

Individual Protection Measures, such as Personal Protective Equipment:

Eye/face protection: Wear safety glasses/goggles.

Skin Protection: Wear protective gloves. Wash hands thoroughly after use.

Respiratory Protection: None necessary if adequate ventilation is provided. Product is an asphyxiant, air purifying respirators would not provide protection. SCBA would be necessary in an enclosed area without proper ventilation.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear spray	**Physical State**	Gas (liquefied compressed gas)
Odor	Mint	**Color**	Colorless
Odor Threshold	No data	**pH**	No data
Melting Point	No data	**Molecular Weight**	No data
Boiling Point	0.5 – 2.0	**Freezing point**	No data
Evaporation Rate	No data	**Flammability class**	Non-flammable
Autoignition Temperature	~ 750°C (~1382°F)	**Flash Point**	93°C (>200°F)
Lower Explosive Limit	No data	**Decomposition temperature**	No data
Upper Explosive Limit	No data	**Vapor Pressure**	85.80 psig @ 70°F
Vapor Density (air=1)	3.60	**Relative Density(water=1)**	1.22
Water Solubility	Negligible, 0-1%	**Partition coefficient: n-octanol/water**	No data
Viscosity	No data	**Kinematic viscosity**	No data

Section 10 - STABILITY AND REACTIVITY

Reactivity:
Reactive under specific conditions, such as very high temperatures and/or sufficient pressures.

Chemical Stability:
Chemically stable

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 form when the product comes in contact with flames or hot surfaces creating a potential health hazard of inhalation of toxic fluorocarbons.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Routes of Exposure:

(Eye/Skin), Inhalation

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.

Eye Contact: Liquid contact can cause irritation and may cause frostbite.

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

Ingestion: Product is a gas. Not a likely route of exposure.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Component Analysis - Aquatic Toxicity:
Material is not considered harmful to the environment.

Persistence and Degradability:
No data available

Bioaccumulative Potential:
Material will not bioconcentrate in fish and aquatic organisms nor will it absorb to sediment and suspended organic matter.

Mobility in soil:
Moderate to high mobility in soil

Other adverse effects:
No data available

This product does not contain persistent, bioaccumulative and toxic chemicals (PBT's) nor does this product any very persistent and very bioaccumulative chemicals (vPvB's).

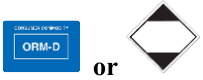
Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:
Dispose of in accordance with local, state and federal regulations
Component Waste Numbers:
The U.S. EPA has not published waste numbers for this products components
Additional Disposal Considerations: Dispose of if shelf life has been exceeded.

Section 14 - TRANSPORT INFORMATION

Emergency Response Guide Number: 126

Shipping Information:

Agency	Proper Shipping Name	UN#	Hazard Class	Label
DOT/TGD	Consumer Commodity	ID8000	Consumer Commodity	 or
Sea Transport IMDG/GGV SEA	1,1,1,2 - Tetrafluoroethane	UN3159	Class 2.2 EmS FC,SV	
Air Transport - ICAO-TI & IATA-DGR	1,1,1,2 - Tetrafluoroethane	UN3159	Class 2.2	

Environmental Hazards:
None
International Bulk Chemical Code:
The product does not have any chemicals required by the IBC Code to be defined as dangerous chemicals in bulk.

Section 15 - REGULATORY INFORMATION

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.
SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories [Classification according to SARA Section 311/312.]:
Not Classified

U.S. State Regulations
None of this product's components are listed on the state lists from MA, MN, NJ or PA.
The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
Not listed under California Proposition 65

Canada Regulations:

CEPA – Priority Substance list

None of this product's components are on the list.

Ozone Depleting Substances:

1,1,1,2 – Tetrafluoroethane is 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.

Section 16 - OTHER INFORMATION

HMIS and NFPA Ratings are not required, but are often found in Section 16.

HMIS Rating

Health: [1] Fire: [1] Reactivity: [1] Other:

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

NFPA Ratings

Health: [1] Fire: [1] Reactivity: [1] Other:

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

REVISION HISTORY						
REVISION	DATE	ECN #	CHG BY	CHK BY	APPR. BY	DESCRIPTION OF CHANGE
B	2/27/15	14715	SBL	SBL	AT	Removed classification of STOT-SE 3 and related hazard and precautionary statements
C	6/13/18		PMc	ES	PMc	Added Simple Asphyxiants, made other minor changes, and updated to WHMIS 2015 Regulations

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: Information included in this Safety Data Sheet was obtained from sources which we believe are accurate and reliable as of the date hereof. HOWEVER, NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of the product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Coltene/Whaledent Inc, assumes no risk or responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.