

**1. Identification of the substance / preparation and of the company / undertakings****Product Details:**

Trade Name: Endo Ice® Refrigerant Spray

**Manufacturer:****Coltène/Whaledent Inc.**

235 Ascot Parkway

Cuyahoga Falls, OH 44223 / USA

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Authorized EU Representative

**Coltène/Whaledent GmbH+ Co. KG**

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**Emergency Contact Numbers:**

USA &amp; Canada: 1 800 535 5053

Main Phone Number: +1 330 916 8800

**2. Composition / Information on Ingredients****Chemical Characterization** : Non-Flammable Aerosol**Hazardous Components:** None**Non-Hazardous Components > 10%:**

811-97-2 1,1,1,2 Tetrafluoroethane

Wt %

&gt; 90%

Index, R/S Phrases

n.k.

**3. Hazard Identification**

Hazard Designation: Non-Flammable aerosol. Provided that product is used as directed, there are no known hazards.

Information pertaining to particular dangers for man and environment: None

Classification is in line with BC directive 1999/45/EC: Not Applicable (N/A)

**4. First-Aid Measures**

After Inhalation: Get to fresh air, if irritation persists, consult a physician.

After Skin Contact: Wash thoroughly with water for 15 minutes. If irritation persists, consult a physician.

After Eye Contact: Flush with water for 15 minutes. If irritation persists, consult a physician.

After Swallowing: Do not induce vomiting. Drink water to dilute and contact a physician.

**5. Fire-Fighting Measures****Flammability: Non-Flammable Aerosol Flash Point: N.D. LEL: Not Established UEL: Not Established**

Special Note: This product is an explosion hazard. Thermal decomposition may produce toxic byproducts.

Extinguishing Media: CO<sub>2</sub>, dry chemical or foam. Water may be used to keep container cold.

Unsuitable Extinguishing Media: None Known

Protective Equipment: Wear NIOSH approved self-contained breathing respirator in positive pressure mode.

**6. Accidental Release Measures**

Personal Precautions: Avoid breathing vapors. Evacuate area until vapor has dispersed.

Environmental Precautions: Remove ignition sources immediately.

Methods of Cleaning Up: Avoid getting material in sewer or drains.

**7. Handling and Storage**

Precautions for Safe Handling: Always wear gloves and eye protection. Minimize breathing of vapors and avoid prolonged or repeated skin contact. If ventilation is not adequate, wear proper respirator. Do not use near ignition sources. Do not puncture or incinerate.

Storage: Keep out of reach of children. Store in a cool, well-ventilated area away from ignition sources. Do not store above 120 °F.

**8. Exposure Controls/Personal Protection**

Components with recommended limits for the work place

CAS No.

Description

Wt%

Type / Value

Engineering Controls: Ventilation should be adequate to prevent exposure above. Local exhaust should be used in areas where exposure limits may be exceeded. Mechanical ventilation should be used in confined spaces.

Hand/Skin Protection: Wear Protective Gloves

Respiratory Protection: None required for well-ventilated areas.

Eye Protection: Wear Safety Goggles with side shields.

Date of Issue: January 2007

Supersedes version of: New

n.a = not applicable, n.k. = not known

Endo-Ice®

**9. Physical And Chemical Properties**

Appearance: Clear, Colorless

Boiling Point : -15.2 °F.

Flammability: No

Vapor Pressure: 81 PSIG @ 77 °F

pH: N.A.

Odor: Spearmint

Flash Point: N.K.

Autoflammability: No

Explosive Properties: N.A.

Viscosity: N.A.

Solubility : Insoluble in water

Method: N.A.

Density: 0.84 g/cc (25°C )

Explosive Limits in Air: N.K.

Method: N.A.

**10. Stability and Reactivity**

Chemical Stability: Stable

Materials to avoid: Avoid alkali or alkaline earth metals,  
powdered Al, Zn, Be, etc.

Conditions to avoid: Ignition Sources

Hazardous Decomposition Products: Burning can produce HF,  
halogens, halogen acids and possibly carbonyl halides**11. Toxicological Information**

Acute Toxicity: N.A.

Primary Effects to Skin: Liquid may cause freezing or skin irritation.

Primary Effects to Eyes: Contact with liquid or vapor may cause irritation

Primary Effects to Respiratory System: Heart irregularities, unconsciousness or death

Sensitization: N.A

Additional Toxicological Info: No chronic health effects known.

**12. Ecological Information**

General Information : This product does not contain any Ozone depleting chemicals.

Classification of Water endangerment : N.A.

**13. Disposal Considerations**

Product: Product is under pressure. Do not puncture or incinerate. Dispose according to Federal, State and Local regulations.

**14. Transportation Information**

DOT Shipping Name:

Consumer Commodity

Sea Transport IMDG/GGV Sea

Aerosol, Non Flammable Gas Class: 2

Air Transport ICAO-Ti and IATA-DGR

Aerosol, Non Flammable Gas Class: 2

DOT Hazard Class:

ORM-D

UN. No.: UN-1950 Page n.a.

UN. No.:UN-1950

UN-No.

N.A.

EmS-No: 2-13 MFGA-No: 620

Packing Instruction : 910

**15. Regulatory Information**

TSCA Inventory Status: This product and/or all of its components are included on the TSCA Inventory of Chemical Substances.

SARA 311/312 Hazard Categories: None

SARA 302 Extremely Hazardous Substances: None

SARA 313 Toxic Chemicals

Chemical NameCAS-No.Weight %

Classification According to EEC Guidelines:

Classification According to VBF:

Canadian Regulations require the inclusion of the following statements under "Regulatory Information";

"This product has been classified in accordance with the hazard criteria of the controlled Products Regulations and the MSDS  
contains all the information required by the Controlled Products Regulations."**16. Other Information**

Revision Summary : Biannual Review 1/26/07. Added authorized EU Rep 5/7/04.

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