1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation
Endo-Ice F

Use of the substance/preparation
for dental use only

Company/undertaking identification

Manufacturer
Company name: Coltène/Whaledent Inc.
Street: 235 Ascot Parkway
Place: Cuyahoga Falls, OH 44223/USA
Telephone: +1 (330) 916 8800
Telefax: +1 (330) 916 7077
e-mail: info@coltenewhaledent.com
Internet: www.coltenewhaledent.com

Authorized Representative
Company name: Coltène/Whaledent GmbH & Co. KG
Street: Raiffeisenstrasse 30
Place: D89129 Langenau
Telephone: +49 (7345) 805 0
Telefax: +49 (7345) 805 201
e-mail: info@coltenewhaledent.de
Internet: www.coltenewhaledent.com

Further Information
Aerosol

2. Hazards identification

Classification
Indications of danger: Extremely flammable
R-phrases:
Extremely flammable.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Hazardous components

<table>
<thead>
<tr>
<th>EC-No.</th>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>203-448-7</td>
<td>106-97-8</td>
<td>butane</td>
<td>30-50 %</td>
<td>F+ R12</td>
</tr>
<tr>
<td>200-827-9</td>
<td>74-98-6</td>
<td>propane</td>
<td>30-50 %</td>
<td>F+ R12</td>
</tr>
<tr>
<td>200-857-2</td>
<td>75-28-5</td>
<td>isobutane</td>
<td>10-20 %</td>
<td>F+ R12</td>
</tr>
</tbody>
</table>

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

After inhalation
Move victim to fresh air. Put victim at rest and keep warm.
After contact with skin
In cases of frostbite rinse with ample water. Do not remove clothing.

After contact with eyes
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion
Immediately get medical attention.

5. Fire-fighting measures

Suitable extinguishing media
Carbon dioxide (CO2). Dry extinguishing powder.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases
Vapours may form explosive mixtures with air.

Special protective equipment for fire-fighters
In case of fire: Wear self-contained breathing apparatus. Protective clothing.

6. Accidental release measures

Personal precautions
Remove all sources of ignition. Ventilate affected area.

Environmental precautions
Do not empty into drains or the aquatic environment.

7. Handling and storage

Handling
Advice on safe handling
Restricted to professional users. Keep out of the reach of children.

Advice on protection against fire and explosion
Do not spray into flames or ignition sources.
Keep away from sources of ignition - No smoking.

Further information on handling
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Storage
Further information on storage conditions
Recommended storage temperature: 15 - 23 °C
Protect from sunlight. Do no expose to temperatures exceeding 50°C/122°F.

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical name</th>
<th>ml/m³</th>
<th>mg/m³</th>
<th>F/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>106-97-8</td>
<td>Butane</td>
<td>600</td>
<td>1450</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>750</td>
<td>1810</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

Exposure controls
When using do not eat, drink or smoke.

Provide adequate ventilation.

Hand protection: heat insulating.

Tightly sealed safety glasses.

Lab apron.

9. Physical and chemical properties

General information

Physical state: liquid/ gaseous
Colour: colourless

Important health, safety and environmental information

Changes in the physical state

Flash point: -60 °C
Lower explosion limits: 1.4 vol. %
Upper explosion limits: 32 vol. %
Ignition temperature: 510 °C
Vapour pressure: 5000 hPa
Density: 0.55 g/cm³

Other information

VOC 555g/l

10. Stability and reactivity

Conditions to avoid
heat.

Oxidizing agents.

Carbon monoxide.

Heating causes rise in pressure with risk of bursting.

11. Toxicological information

Severe effects after repeated or prolonged exposure
Harmful: danger of serious damage to health by prolonged exposure through inhalation. Harmful: danger of serious damage to health by prolonged exposure in contact with skin.

12. Ecological information

Product is easily volatile.
Persistence and degradability
Product is biodegradable with difficulty.

Further information
According to the criteria of the EC-classification and labelling "dangerous for the environment" (93/21/EEC) the material/product is not to be classified as dangerous to the environment.

13. Disposal considerations

Advice on disposal
Waste disposal according to official state regulations.

Waste disposal number of waste from residues/unused products
150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Waste disposal number of contaminated packaging
150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging
Waste disposal according to official state regulations.

14. Transport information

Land transport (ADR/RID)
UN number: 1950
ADR/RID class: 2
Classification code: 5F
Warning plate
Hazard label: 2.1
Limited quantity: LQ2
Tunnel restriction code: D

Description of the goods
AEROSOLS

Other applicable information (land transport)
Special provisions: 190 - 327 - 625 E0
Transport category: 2

Marine transport
UN number: 1950
IMDG code: 2
Marine pollutant: •
Hazard label: 2, see SP63
IMDG packing group: -
EmS: F-D, S-U
Limited quantity: See SP277

Description of the goods
AEROSOLS
Other applicable information (marine transport)
Special provisions: 63, 190, 277, 327, 959
E0

Air transport
UN/ID number: 1950
ICAO/IATA-DGR: 2.1
Hazard label: 2.1
Limited quantity Passenger: 30 kg G
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

Description of the goods
AEROSOLS

Other applicable information (air transport)
E0
: Y203
Special provisions: A145 - A153
: -

15. Regulatory information

Labelling
Danger symbols: F+ - Extremely flammable
R phrases
12 Extremely flammable.
S phrases
02 Keep out of the reach of children.
16 Keep away from sources of ignition - No smoking.

National regulatory information

16. Other information

Full text of R-phrases referred to under sections 2 and 3
12 Extremely flammable.

Further Information
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)