

according to Regulation (EC) No 1907/2006

**Endo-Frost**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Endo-Frost

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

for dental use only

**Uses advised against**

No information available.

**1.3. Details of the supplier of the safety data sheet**

Company name:	COLTENE/Whaledent GmbH & Co. KG
Street:	Raiffeisenstraße 30
Place:	D-89129 Langenau
Telephone:	+49 (7345) 805 0
Telefax:	+49 (7345) 805 201
e-mail:	info.de@coltene.com
Internet:	www.coltene.com

**1.4. Emergency telephone number:** +49 (0) 6132-84463 GBK GmbH Global Regulatory Compliance (24 h)**Further Information**

Aerosol

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: Aerosol 1

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

**Precautionary statements**

P102

Keep out of reach of children.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P410+P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501

Dispose of waste according to applicable legislation.

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**2.3. Other hazards**

Caution! Container under pressure. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
106-97-8	butane			30-50 %
	203-448-7	601-004-00-0		
	Flam. Gas 1; H220			
74-98-6	propane			30-50 %
	200-827-9	601-003-00-5		
	Flam. Gas 1; H220			
75-28-5	isobutane			10-20 %
	200-857-2	601-004-00-0		
	Flam. Gas 1; H220			

Full text of H and EUH statements: see section 16.

**Further Information**

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

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air.

Get medical advice/attention if you feel unwell.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

**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**

Get medical advice/attention if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

No information available.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Sand.**Unsuitable extinguishing media**

Water.

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Extremely flammable aerosol.

Caution! Container under pressure.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

Protective clothing.

**Additional information**

Co-ordinate fire-fighting measures to the fire surroundings.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ventilate affected area. Remove persons to safety.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Do not rinse down with water. Provide adequate ventilation.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

for professional use only Keep out of the reach of children.

Observe instructions for use.

**Advice on protection against fire and explosion**

Do not spray on naked flames or any incandescent material.

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.

**7.2. Conditions for safe storage, including any incompatibilities****Further information on storage conditions**

Keep container tightly closed in a cool place.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

**8.2. Exposure controls****Protective and hygiene measures**

When using do not eat, drink or smoke.

**Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Wear suitable gloves.

**Skin protection**

Lab apron.

**Respiratory protection**

Provide adequate ventilation.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid/ gaseous  
 Colour: colourless

pH-Value: not applicable

**Changes in the physical state**

Initial boiling point and boiling range: not applicable

Flash point: -97 °C

**Explosive properties**

In use may form flammable/explosive vapour-air mixture.

Lower explosion limits: 1.5 vol. %

Upper explosion limits: 10.9 vol. %

Ignition temperature: 365 °C

Vapour pressure: 5000 hPa  
 (at 20 °C)

Density (at 20 °C): 0.55 g/cm<sup>3</sup>

Water solubility: The study does not need to be conducted  
 because the substance is known to be  
 insoluble in water /immiscible

Solvent content: 100%

**9.2. Other information**

Volatile organic compounds (VOC) content in percent by weight: 100%

**SECTION 10: Stability and reactivity****10.2. Chemical stability**

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**10.3. Possibility of hazardous reactions**

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**10.4. Conditions to avoid**

heat.

**10.5. Incompatible materials**

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**10.6. Hazardous decomposition products**

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**Further information**

Heating causes rise in pressure with risk of bursting.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
106-97-8	butane				
	inhalative (4 h) gas	LC50 658 ppm	Rat	GESTIS	

**Irritation and corrosivity**

Classification according EC regulation 1272/2008 (CLP): Not an irritant.

Classification according to directive 67/548/EEC or 1999/45/EC: Not an irritant.

**Sensitising effects**

Classification according EC regulation 1272/2008 (CLP): no danger of sensitization.

Classification according to directive 67/548/EEC or 1999/45/EC: no danger of sensitization.

**STOT-single exposure**

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**STOT-repeated exposure**

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**Further information**

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**SECTION 12: Ecological information****12.2. Persistence and degradability**

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**12.3. Bioaccumulative potential****Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
74-98-6	propane	2,36
75-28-5	isobutane	2,8

**12.4. Mobility in soil**

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**12.5. Results of PBT and vPvB assessment**

not applicable

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**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.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation.

**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 hazardous 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**

Dispose of waste according to applicable legislation.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1  
Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L (LQ2)  
Excepted quantity: E0  
Transport category: 2  
Tunnel restriction code: D

**Other applicable information (land transport)**

Special provisions: 190 - 327 - 344 -625  
E0  
Transport category: 2

**Marine transport (IMDG)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1  
Marine pollutant: NO  
Special Provisions: 63-190-277-327-344-959  
Limited quantity: 1 L  
Excepted quantity: E0  
EmS: F-D, S-U

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**Other applicable information (marine transport)**

E0

Flash Point -97° C

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS, flammable
<b>14.3. Transport hazard class(es):</b>	2.1
<b>14.4. Packing group:</b>	-
Hazard label:	2.1
Special Provisions:	A145 - A167 - A802
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y203
Excepted quantity:	E0
IATA-packing instructions - Passenger:	Y203 (LQ)
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

**Other applicable information (air transport)**

E0

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 28: butane; isobutane

**National regulatory information****Additional information**

VOC (CH) : 0.111 kg/Unit

**SECTION 16: Other information****Abbreviations and acronyms**

Land transport (ADR/RID)

Sea transport (IMDG)

Air transport (ICAO-TI / IATA-DGR)

**Relevant H and EUH statements (number and full text)**

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

**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.)*