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Supersedes version of:  
07.03.2006**1. Identification of the substance / preparation and of the company / undertaking**

**Product name:** Occlusion spray 75 ml  
**Commercial name:** HANEL  
Okklu-top red REF 480 410  
Okklu-top green REF 480 411

**Use / description of product:** Aerosol. Extremely flammable.

**Company name:** Coltène/Whaledent GmbH + Co. KG  
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Vergiftungs-Informations-Zentrale Freiburg

**2. Hazards identification**

**Main hazards:** Extremely flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Other hazards:** Extremely flammable. In use, may form flammable / explosive vapour-air mixture.

**3. Composition / information on ingredients**

**Hazardous Ingredients:**

- BUTAN 50-70%  
EINECS: 203-448-7  
CAS: 106-97-8  
[F+] R12
- PROPAN 10-20%  
EINECS: 200-827-9  
CAS: 74-98-6  
[F+] R12
- ISOBUTAN 10-20%  
EINECS: 200-857-2  
CAS: 75-28-5  
[F+] R12
- DIMETHOXYMETHAN 1-10%  
EINECS: 203-714-2  
CAS: 109-87-5  
[F] R11

- NAPHTHA (PETROLEUM), HYDROTREATED LIGHT;  
NAPHTHA, HYDROTREATED, LOW BOILING (2)  
1-10%  
EINECS: 265-151-9  
CAS: 64742-49-0  
[F] R11; [Xi] R38; [N] R51/53; [Xn] R65; [-] R67

**4. First aid measures (symptoms)**

<b>Skin contact:</b>	There may be mild irritation at the site of contact.
<b>Eye contact:</b>	There may be irritation and redness.
<b>Ingestion:</b>	Headaches or general malaise may result.
<b>Inhalation:</b>	Drowsiness or mental confusion may occur.

**4. First aid measures (action)**

<b>Skin contact:</b>	Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.
<b>Eye contact:</b>	Bathe the eye with running water for 15 minutes. Transfer to hospital of specialist examination.
<b>Ingestion:</b>	Transfer to hospital as soon as possible.
<b>Inhalation:</b>	Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary.

**5. Fire-fighting measures**

<b>Extinguishing media:</b>	Carbon dioxide. Dry chemical powder.
<b>Exposure hazards:</b>	Forms explosive air-vapour mixture. Extremely flammable.
<b>Protection of fire-fighters:</b>	Wear self-contained breathing apparatus. Wear protection clothing to prevent contact with skin and eyes.

**6. Accidental release measures**

<b>Personal precautions:</b>	Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition. Mechanically ventilate the spillage area whilst avoiding the formation of explosive concentrations - see section 9 of SDS.
<b>Environmental precautions:</b>	Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas.
<b>Clean-up procedures:</b>	Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

**7. Handling and storage**

<b>Handling requirements:</b>	Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Smoking is forbidden.
<b>Storage conditions:</b>	Keep away from sources of ignition.
<b>Suitable packaging:</b>	Must only be kept in original packaging.

**8. Exposure controls / Personal protection**

<b>Hazardous ingredients:</b>	<ul style="list-style-type: none"> <li>• BUTAN WEL (8 hr exposure limit): 1000 ppm</li> <li>• PROPAN WEL (8 hr exposure limit): 1000 ppm</li> <li>• ISOBUTAN WEL (8 hr exposure limit): 1000 ppm</li> <li>• DIMETHOXYMETHAN WEL (8 hr exposure limit): 1000 ppm</li> <li>• NAPHTHA (ERDÖL), MIT WASSERSTOFF BEHANDELTE LEICHTE ; NAPHTHA, ASSERSTOFFBEHANDELTE, NIEDRIG SIEDEND (2) WEL (8 hr TWA): 170 ppm</li> </ul>
<b>Engineering measures:</b>	Ensure there is sufficient ventilation of the area.
<b>Respiratory protection:</b>	Self-contained breathing apparatus must be available in case of emergency.
<b>Hand protection:</b>	Nitrile gloves. Breakthrough time of the glove material > 4 hours.
<b>Eye protection:</b>	Safety goggles.
<b>Skin protection:</b>	Solvent resistant protective clothing.

**9. Physical and chemical properties**

<b>State:</b>	Aerosol
<b>Colour:</b>	Red or green
<b>Odour:</b>	Characteristic odour
<b>Evaporation rate:</b>	Fast
<b>Solubility in water:</b>	Insoluble
<b>Flammability limits %: lower:</b>	1,4
<b>upper:</b>	32,0
<b>Flash point °C:</b>	- 60
<b>Autoflammability °C:</b>	510
<b>Vapour pressure:</b>	3000 hPa
<b>Relative density:</b>	0,589 g/ml
<b>VOC g/l:</b>	580

**10. Stability and reactivity**

<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to avoid:</b>	Sources of ignition. Heat.
<b>Materials to avoid:</b>	Oxidising agents.
<b>Haz. decomp. products:</b>	In combustion emits toxic fumes of carbon dioxide /carbon monoxide.

**11. Toxicological information**

<b>Chronic toxicity:</b>	Danger of serious damage to health by prolonged exposure through inhalation. Danger of serious damage to health by prolonged exposure in contact with skin.
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**12. Ecological information**

<b>Mobility:</b>	Highly volatile. Vapour is heavier than air.
<b>Persistence and degradability:</b>	Not biodegradable.
<b>Bioaccumulative potential:</b>	No data available.
<b>Other adverse effects:</b>	Harmful to aquatic organisms.

**13. Disposal considerations**

<b>Disposal operations:</b>	D1 Tipping above or underground (e.g. landfill, etc.) R3 Recycling/reclamation of metals and metal compounds.
<b>Waste code number:</b>	150110, 150104
<b>Disposal of packaging:</b>	Arrange of collection by specialised disposal company.
<b>NB:</b>	The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. Transport information****ADR / RID**

<b>UN No:</b>	1950	<b>ADR Class:</b>	2
<b>Classification code</b>	5F		
<b>Shipping name:</b>	AEROSOLS		
<b>Labelling:</b>	2.1		

**IMDG / IMO**

<b>UN No:</b>	1950	<b>Class:</b>	2
<b>EmS:</b>	F-D, S-U	<b>Marine pollutant:</b>	.
<b>Labelling:</b>	2.1		

**IATA / ICAO**

<b>UN No:</b>	1950	<b>Class:</b>	2.1
<b>Labelling:</b>	2.1		

**15. Regulatory information**

**Hazard symbols:** Extremely flammable.



**Risk phrases:** R12: Extremely flammable.  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:** S23: Do not breathe aerosol.  
S51: Use only in well-ventilated areas.

**Precautionary phrases:** 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 an a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

**Haz. ingredients (label):** NAPHTHA (ERDÖL), MIT WASSERSTOFF BEHANDELTE LEICHTE ; NAPHTHA, WASSERSTOFFBEHANDELT, NIEDRIG SIEDEND (2)

**Seveso II guideline:** Yes

**Water hazard class:** 1 Classification by VwVwS

**Air emission directive:** Item no: 5.2.5 Amount m%: 98

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**16. Other information**

**Other information:** Storage classification 2B Limited Quantities. AOX. no. Safety Data Sheet according to Regulation (EU) No. 1907/2006.

**Risk phrases used in s.2:** R12: Extremely flammable.  
R11: Highly flammable.  
R38: Irritating to skin.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65: Harmful: may cause lung damage if swallowed.  
R67: Vapours may cause drowsiness and dizziness.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.