

Kälte-Spray mit Duft

Material number 04

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

Trade name: Kälte-Spray mit Duft

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: For cooling of impression materials

1.3 Details of the supplier of the safety data sheet

Company name: Marcadent GmbH

Street/POB-No.: Bernhard Hahn Str. 30

Postal Code, city: 41812 Erkelenz

Germany

WWW: www.marcadent.de

E-mail: info@marcadent.de

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Dept. responsible for information:

Telephone: +49 (0)2431 8055845, E-mail: info@marcadent.de

1.4 Emergency telephone number**Telephone: +49 (0)2431 8055845****Only available during office hours.****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to EC regulation 1272/2008 (CLP)**

Flam. Aerosol 1; H222 Extremely flammable aerosol.

Compr. Gas; H280 Contains gas under pressure; may explode if heated.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or 1999/45/EC

F+; R12 Extremely flammable.

R52-53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements**Labelling (CLP)**

Signal word:

Danger

Hazard statements:

H222

Extremely flammable aerosol.

H280

Contains gas under pressure; may explode if heated.

H412

Harmful to aquatic life with long lasting effects.

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Safety precautions:	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	Pressurized container: Do not pierce or burn, even after use.
	P273	Avoid release to the environment.
	P410+P403	Protect from sunlight. Store in a well-ventilated place.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
	P501	Dispose of contents/container to hazardous or special waste collection point.

Labelling (67/548/EEC or 1999/45/EC)



F+

extremely flammable

R phrase(s):	R 12	Extremely flammable.
	R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S phrase(s):	S 2	Keep out of the reach of children.
	S 9	Keep container in a well-ventilated place.
	S 16	Keep away from sources of ignition. - No smoking.
	S 23	Do not breathe gas/fumes/vapour/spray.
	S 51	Use only in well-ventilated areas.
	S 61	Avoid release to the environment. Refer to special instructions/safety data sheet.

Special labelling

Text for labelling: Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50 °C. Do not open with force or incinerate, even when empty. 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. Contains Cornmint oil (Mentha arvensis), Orange oil (Citrus dulcis), (R)-p-Mentha-1,8-diene (Limonene). May cause sensitization by skin contact.

2.3 Other hazards

Exposure to temperatures exceeding 50 °C will increase pressure: resulting in danger of bursting or explosion.
Potentially explosive mixtures may form if adequate ventilation is not provided.
Vapours of organic solvents may have a narcotic effect.
May cause sensitisation especially in sensitive humans.

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterization: Aerosol-mixture of Isopropyl alcohol, scented oil with propane/butane-mixture as propellant



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Hazardous ingredients:

Ingredient	Designation	Content	Classification
EINECS 200-661-7 CAS 67-63-0	Isopropyl alcohol	< 5 %	EU: F; R11. Xi; R36. R67. CLP: Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336.
EINECS 290-058-5 CAS 68917-18-0	Cornmint oil (Mentha arvensis)	< 1 %	EU: Xi; R38. Sens.; R43. N; R51-53. CLP: Skin Irrit. 2; H315. Skin Sens. 1; H317. Aquatic Chronic 2; H411.
EINECS - CAS 8008-57-9	Orange oil (Citrus dulcis)	< 1 %	EU: R10. Xi; R38. Sens.; R43. N; R50-53. Xn; R65. CLP: Flam. Liq. 3; H226. Skin Irrit. 2; H315. Skin Sens. 1; H317. Asp. Tox. 1; H304. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.
EINECS 227-813-5 CAS 5989-27-5	(R)-p-Mentha-1,8-diene	< 1 %	EU: R10. Xi; R38. Sens.; R43. N; R50-53. CLP: Flam. Liq. 3; H226. Skin Irrit. 2; H315. Skin Sens. 1; H317. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.
EINECS 200-827-9 CAS 74-98-6	Propane	20-50 %	EU: F+; R12. CLP: Flam. Gas 1; H220. Liquef. Gas; H280.
EINECS 203-448-7 CAS 106-97-8	Butane	20-50 %	EU: F+; R12. CLP: Flam. Gas 1; H220. Liquef. Gas; H280.

SECTION 4: First aid measures

4.1 Description of first aid measures

- In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.
Remove victim out of the danger area.
- In case of skin contact: Wash with generous amount of water and soap. Immediately remove any contaminated clothing, shoes or stockings. In case of skin irritation, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Seek the attention of an ophthalmologist immediately.
- After swallowing: Swallowing is not regarded as a possible way of exposition.

4.2 Most important symptoms and effects, both acute and delayed

Vapours in high concentrations have anaesthetic effect.
In case of prolonged exposure: Nausea, drowsiness, headache, agitation, fatigue, dizziness, unconsciousness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water fog, alcohol resistant foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

High power water jet

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5.2 Special hazards arising from the substance or mixture

Extremely flammable. Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited.
May form dangerous gases and vapours in case of fire. Furthermore, there may develop:
Organic crack products and carbon oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus and protective clothing to protect skin and eyes. Do not breathe fumes.

Additional information:

Hazchem-Code: -

Do not expose to high temperature. Danger of bursting and explosion.

Cool endangered containers with water spray and, if possible, remove from danger zone.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

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

Keep away from sources of ignition. - No smoking.

Provide adequate ventilation. Do not breathe vapour/aerosol.

Wear suitable protective clothing. Avoid contact with skin and eyes.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions.

Larger quantities to be stemmed and pumped into tanks.

Explosion protection required.

Provide fresh air.

6.4 Reference to other sections

Refer additionally to chapter 8 and 13.

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

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Do not breathe vapour/aerosol. Avoid contact with skin and eyes.

Take care of instructions on label.

Precautions against fire and explosion:

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 naked flames or any incandescent material.

Use only non-sparking tools. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

Keep only in the original packaging.



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Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids.

Storage class: 2 B = Aerosols

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-63-0	Isopropyl alcohol	Great Britain: WEL-STEL	1,250 mg/m ³ ; 500 ppm
		Great Britain: WEL-TWA	999 mg/m ³ ; 400 ppm
		Ireland: 15 minutes	400 ppm
		Ireland: 8 hours	200 ppm
74-98-6	Propane	Ireland: 8 hours	1,000 ppm
106-97-8	Butane	Great Britain: WEL-STEL	1,810 mg/m ³ ; 750 ppm (Carc, only applies if Butane contains more than 0.1% of buta-1,3-diene)
		Great Britain: WEL-TWA	1,450 mg/m ³ ; 600 ppm (Carc, only applies if Butane contains more than 0.1% of buta-1,3-diene)
		Ireland: 8 hours	1,000 ppm

DNEL/DMEL: Information about Isopropyl alcohol:
Systemic effects:
DNEL Long-term, workers, dermal: 888 mg/kg bw/d
DNEL Long-term, workers, inhalative: 500 mg/m³
DNEL Long-term, consumers, oral: 26 mg/kg bw/d
DNEL Long-term, consumers, dermal: 319 mg/kg bw/d
DNEL Long-term, consumers, inhalative: 89 mg/m³

PNEC: Information about Isopropyl alcohol:
PNEC water (freshwater): 140.9 mg/L
PNEC water (marine water): 140.9 mg/L
PNEC water (intermittent release): 140.9 mg/L
PNEC sediment (freshwater): 552 mg/kg dw
PNEC sediment (marine water): 552 mg/kg dw
PNEC soil: 28 mg/kg dw
PNEC sewage treatment plant: 552 mg/L
PNEC Secondary Poisoning, oral: 160 mg/kg food and feedingstuffs

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use combination filter type AX-P3 according to EN 14387.

If higher concentrations occur: Wear self-contained breathing apparatus.

Hand protection: Recommendation: Protective gloves according to EN 374
Glove material: Nitrile rubber
Breakthrough time: > 480 min
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.



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Eye protection: Tightly sealed goggles according to EN 166.
Body protection: Wear suitable protective clothing.
General protection and hygiene measures:
Do not breathe vapour/aerosol. Use only in well-ventilated areas.
Change contaminated clothing. Avoid contact with skin and eyes.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Physical state: Aerosol
Odour: type specific
Odour threshold: no data available
pH value: no data available
Melting point/melting range: no data available
Boiling temperature/boiling range: no data available
Flash point/flash point range: not applicable
Vapourisation rate: no data available
Flammability: Extremely flammable.
Explosive properties: no data available
Explosion limits: LEL (Lower Explosion Limit): 1.50 Vol-% (propellant)
UEL (Upper Explosive Limit): 9.50 Vol-% (propellant)
Vapour pressure: no data available
Vapour density: no data available
Density: no data available
Water solubility: not soluble
Partition coefficient n-octanol/water: no data available
Autoflammability: no data available
Thermal decomposition: no data available
Viscosity, dynamic: no data available
Explosive properties: no data available
Oxidizing characteristics: no data available

9.2 Other information

Additional information: no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Extremely flammable aerosol.
Vapours can form explosive mixtures with air.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Container under pressure.
Do not expose to high temperature. Danger of bursting and explosion.

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10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect from direct exposure to sunlight and temperatures exceeding 50 °C.

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

In case of fire may be liberated: Organic crack products and carbon oxides.

Thermal decomposition: no data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute toxicity:

LD50 Rat, oral: (Isopropyl alcohol) 5,045 mg/kg

LD50 Rabbit, dermal: (Isopropyl alcohol) 12,800 mg/kg

LC50 Rat, inhalative: (Isopropyl alcohol) 46.5 mg/L/4h (RTECS)

LDLo human, oral: (Isopropyl alcohol) 3,570 mg/kg (RTECS)

Toxicological effects:

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Symptoms

Vapours in high concentrations have anaesthetic effect.

In case of prolonged exposure: Nausea, drowsiness, headache, agitation, fatigue, dizziness, unconsciousness.



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information about Isopropyl alcohol:

Toxic effect on fishes and plankton.

Algae toxicity:

EC50 *Desmodesmus subspicatus* (green algae): > 1000 mg/L/72h (IUCLID).

Bacterial toxicity:

EC5 *Pseudomonas putida*: 1050 mg/L/16h.

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): 13299 mg/L/48h (IUCLID).

Fish toxicity:

LC50 *Lepomis macrochirus* (bluegill): 1400 mg/L/96h (ECOTOX Database).

12.2. Persistence and degradability

Further details: no data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water:

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 16 05 04* = Gases in pressure containers (including halons) containing dangerous substances

* = Evidence for disposal must be provided.

Recommendation: Special waste. Do not open with force or incinerate, even when empty.

Dispose of waste according to applicable legislation.

Contaminated packaging

Waste key number: 15 01 04 = Metallic packaging

Recommendation: Empty carefully and completely, if possible.

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA: 1950



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14.2 UN proper shipping name

ADR/RID, IMDG: UN 1950, AEROSOLS
IATA: UN 1950, AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR/RID: Class 2, Code: 5F
IMDG: Class 2, Subrisk -, see SP63
IATA: Class 2.1

14.4 Packing group

ADR/RID, ADN, IATA: not applicable
IMDG: -

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board: ADR: UN number 1950
RID: Kemmler-number 23, UN number 1950
Hazard label: 2.1
Special provisions: 190 327 344 625
Limited quantities: 1 L
EQ: E0
Contaminated packaging - Instructions: P207 LP02
Contaminated packaging - Special provisions: PP87 RR6 L2
Special provisions for packing together: MP9
Tunnel restriction code: D



Sea transport (IMDG)

EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 959
Limited quantities: See SP277
EQ: E0
Contaminated packaging - Instructions: P207, LP202
Contaminated packaging - Provisions: -
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and segregation: For AEROSOLS with a maximum capacity of 1 l: Category A. Segregation as for class 9 but "Away from" sources of heat and "separated from" class 1 except division 1.4. For AEROSOLS with a capacity above 1 l: Category B. Segregation as for the appropriate sub-division of class 2. For WASTE AEROSOLS: Category C. Clear of living quarters and away from sources of heat. Segregation as for the appropriate sub-division of class 2.
Properties and observations: -
Segregation group: none

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Air transport (IATA)

Hazard:	Flamm. gas
EQ:	E0
Passenger Ltd.Qty.:	Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger:	Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo:	Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisioning:	A145 A167 A802
ERG:	10L

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations - Great Britain

Hazchem-Code: -

National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word:	Danger
Hazard statements:	H222 Extremely flammable aerosol. H412 Harmful to aquatic life with long lasting effects.
Safety precautions:	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 Pressurized container: Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

National regulations - USA

Hazard rating systems:	NFPA Hazard Rating: Health: 1 (Slight) Fire: 4 (Severe) Reactivity: 0 (Minimal)
	HMIS Version III Rating: Health: 1 (Slight) Flammability: 4 (Severe) Physical Hazard: 0 (Minimal) Personal Protection: X = Consult your supervisor



HEALTH	1
FLAMMABILITY	4
PHYSICAL HAZARD	0
X	

15.2 Chemical Safety Assessment

no data available



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SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

- H220 = Extremely flammable gas.
- H222 = Extremely flammable aerosol.
- H225 = Highly flammable liquid and vapour.
- H226 = Flammable liquid and vapour.
- H280 = Contains gas under pressure; may explode if heated.
- H304 = May be fatal if swallowed and enters airways.
- H315 = Causes skin irritation.
- H317 = May cause an allergic skin reaction.
- H319 = Causes serious eye irritation.
- H336 = May cause drowsiness or dizziness.
- H400 = Very toxic to aquatic life.
- H410 = Very toxic to aquatic life with long lasting effects.
- H411 = Toxic to aquatic life with long lasting effects.
- H412 = Harmful to aquatic life with long lasting effects.

Wording of the R-phrases under paragraph 2 and 3:

- R 10 = Flammable.
- R 11 = Highly flammable.
- R 12 = Extremely flammable.
- R 36 = Irritating to eyes.
- R 38 = Irritating to skin.
- R 43 = May cause sensitization by skin contact.
- R 50/53 = Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 51/53 = Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 52/53 = Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 65 = Harmful: may cause lung damage if swallowed.
- R 67 = Vapours may cause drowsiness and dizziness.

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Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.