

## SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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VERSION: 1.0

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

Trade name	Cold' spray
Product code	No data available
SDS Number	8152
Product use	Professional use

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

Relevant identified uses	Cold spray for testing vitality, Aerosol
Uses advised against	Intraoral use

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

Dentaco GmbH & Co.KG  
Max-Keith-Str. 46  
45136 Essen  
Deutschland  
Tel.: + 49 ( 0) 201/ 8098290  
Fax: + 49 (0) 201/ 80982999  
Internet: www.dentaco.de ; info@dentaco.de  
E-Mail: HSE@rle.de

**1.4. Emergency telephone number**

+ 49 ( 0) 201/ 8098290 (Mo. - Fr. 09:00 - 17:00)

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

Physical hazards	Aerosol, Category 1	H222;H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
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**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008****Hazard pictograms****Signal word**

Danger

**Hazard statements**

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

**Precautionary statements****Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

P211	sources. No smoking.
P251	Do not spray on an open flame or other ignition source.
<b>Storage</b>	
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 122 °F, 50 °C.
<b>Supplemental hazard information</b>	
Extra phrases	Keep out of the reach of children For professional users only.

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

## 3. SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
Propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21-XXXX	< 95	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	(Note U)
butane	106-97-8 203-448-7 601-004-00-0 01-2119474691-32-XXXX	< 95	Flam. Gas 1A, H220 Press. Gas	(Note C)(Note U)
isobutane	75-28-5 200-857-2 601-004-00-0 01-2119485395-27-XXXX	< 95	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	(Note C)(Note U)
Ethane	74-84-0 200-814-8 601-002-00-X 01-2119486765-21-XXXX	1-< 2	Flam. Gas 1, H220 Press. Gas (Comp.), H280	

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U(table 3.1) : When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Full text of H-statements: see section 16

## 4. SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

<b>Skin contact:</b>	Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eyes contact</b>	Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Immediately call a POISON CENTER/doctor. Rinse mouth. Do not induce vomiting.

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

<b>Symptoms/effects:</b>	May cause drowsiness or dizziness. Headache.
<b>Symptoms/effects after inhalation</b>	Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
<b>Symptoms/effects after skin contact</b>	Burns. Irritation.

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

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation.

### 5. SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Dry chemical, CO2, dry sand, or alcohol-resistant foam.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Fire hazard</b>	Extremely flammable aerosol.
<b>Explosion hazard</b>	Pressurised container: May burst if heated.
<b>Reactivity in case of fire</b>	In the event of fire hazardous gases may occur.
<b>Hazardous combustion products</b>	Carbon dioxide. Carbon monoxide.

#### 5.3. Advice for firefighters

<b>Firefighting instructions</b>	Move container from fire area if it can be done without risk. Use water spray or fog for cooling exposed containers.
<b>Protection during firefighting</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear fire/flame resistant/retardant clothing.
<b>Other information</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

### 6. SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

<b>General measures</b>	Do not handle until all safety precautions have been read and understood. Eliminate every possible source of ignition. During fire, gases hazardous to health may be formed. Carbon monoxide. Carbon dioxide.
<b>For non-emergency personnel</b>	
<b>Protective equipment</b>	Use personal protective equipment as required. Wear appropriate protective equipment and clothing during clean-up.
<b>Emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>For emergency responders</b>	
<b>Protective equipment</b>	Wear recommended personal protective equipment.
<b>Emergency procedures</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

**6.2. Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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

**Methods for cleaning up** Remove all sources of ignition. Keep away from combustible material. Stop the leak.

**Other information** Prevent entry into waterways, sewer, basements or confined areas.

**6.4. Reference to other sections**

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

**7. SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Precautions for safe handling** Keep away from sources of ignition - No smoking. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment. Avoid prolonged exposure. Avoid contact with eyes. Observe good industrial hygiene practices. Do not eat, drink or smoke when using this product. Wear appropriate personal protective equipment. Keep only in original container. Avoid release to the environment.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep away from ignition sources.

**Incompatible materials** combustible materials. Direct sunlight. Heat sources. Sources of ignition.

**Storage class (LGK, TRGS 510)** LGK 2B - Aerosol dispensers and lighters

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

Cold spray for testing vitality.

**8. SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

Germany - TRGS900

Regulation	Substance	Type	Value
TRGS900	<b>isobutane (75-28-5)</b> Isobutan	AGW (OEL TWA) [1]	2400 mg/m <sup>3</sup>
		AGW (OEL TWA) [2]	1000 ppm
		AGW (OEL C)	9600 mg/m <sup>3</sup>
		AGW (OEL C) [ppm]	4000 ppm
		Remark	DFG
	<b>butane (106-97-8)</b> Butan	AGW (OEL TWA) [1]	2400 mg/m <sup>3</sup>
		AGW (OEL TWA) [2]	1000 ppm
		AGW (OEL C)	9600 mg/m <sup>3</sup>
		AGW (OEL C) [ppm]	4000 ppm
		Remark	DFG
	<b>Propane (74-98-6)</b> Propan	AGW (OEL TWA) [1]	1800 mg/m <sup>3</sup>
		AGW (OEL TWA) [2]	1000 ppm
		AGW (OEL C)	4000 mg/m <sup>3</sup>
		AGW (OEL C) [ppm]	7200 ppm
		Remark	DFG

DNEL: Derived no effect level

No data available

**PNEC: Predicted no effect concentration**

No data available

## 8.2. Exposure controls

<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level
<b>Materials for protective clothing</b>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment
<b>Individual protection measures, such as personal protective equipment (PPE)</b>	
<b>Eye protection</b>	Wear tight-fitting goggles or face shield
<b>Skin protection</b>	
<b>Hand protection</b>	Wear protective gloves
<b>Other protective measures</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
<b>Respiratory protection</b>	Wear respiratory protection.
<b>Skin and body protection</b>	Wear suitable protective clothing
<b>Thermal hazard protection</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Environmental exposure controls</b>	Inform appropriate managerial or supervisory personnel of all environmental releases.

## 9. SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Gas
<b>Appearance</b>	Aerosol.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Relative evaporation rate (butylacetate=1)</b>	No data available
<b>Melting point</b>	-188 -- -138 °C @1013 hPa
<b>Freezing point</b>	No data available
<b>Boiling point</b>	-42 °C @1013 hPa
<b>Flash point</b>	-80 °C Aerosol Not applicable
<b>Auto-ignition temperature</b>	No data available
<b>Ignition temperature</b>	> 450 °C
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	Extremely flammable aerosol, Flammable gas
<b>Vapour pressure</b>	5 bar @ 20°C
<b>Relative vapour density at 20 °C</b>	No data available
<b>Relative density</b>	No data available
<b>Density</b>	0.535 g/cm <sup>3</sup>
<b>Solubility</b>	No data available
<b>Log Pow</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Viscosity, dynamic</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	None.
<b>Lower explosive limit (LEL)</b>	1.5 vol %

Upper explosive limit (UEL) 10.9 vol %

## 9.2. Other information

VOC (EU) Not applicable

## 10. SECTION 10: Stability and reactivity

10.1. Reactivity Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability Stable under normal conditions of use.

10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	Occupational exposure to the substance or mixture may cause adverse effects.

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Hazardous to the aquatic environment, short-term (acute)

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
butane (106-97-8)	Fish	Fish	LC50	27,98 mg/l	96 h	
	aquatic invertebrates	Daphnia magna	LC50	14,22 mg/l	48 h	
	algae	algae	EC50	7,71 mg/l	96 h	

### 12.2. Persistence and degradability

#### butane (106-97-8)

Persistence and degradability Readily biodegradable.

<b>Propane (74-98-6)</b>	
<b>Persistence and degradability</b>	Readily biodegradable.
<b>12.3. Bioaccumulative potential</b>	
<b>butane (106-97-8)</b>	
<b>Log Pow</b>	1.09 – 2.8 @ 20 °C, pH 7
<b>Propane (74-98-6)</b>	
<b>Log Pow</b>	1.09 – 2.8 @ 20 °C, pH 7
<b>12.4. Mobility in soil</b>	
No additional information available.	
<b>12.5. Results of PBT and vPvB assessment</b>	
<b>Cold' spray</b>	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.	
<b>12.6. Other adverse effects</b>	
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.
<b>13. SECTION 13: Disposal considerations</b>	
<b>13.1. Waste treatment methods</b>	
<b>Regional legislation (waste)</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Waste treatment methods</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with licensed collector's sorting instructions.
<b>Product/Packaging disposal recommendations</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Additional information</b>	Dispose in accordance with all applicable regulations.
<b>European List of Waste (LoW) code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
16 05 04*	gases in pressure containers (including halons) containing dangerous substances
15 01 10*	packaging containing residues of or contaminated by dangerous substances
<b>14. SECTION 14: Transport information</b>	
In accordance with ADR / IMDG / IATA / ADN / RID	
<b>14.1. UN number</b>	
<b>UN-No. (ADR)</b>	1950
<b>UN-No. (IMDG)</b>	1950
<b>UN-No. (IATA)</b>	1950
<b>UN-No. (ADN)</b>	1950
<b>UN-No. (RID)</b>	1950

<b>14.2. UN proper shipping name</b>	
Proper Shipping Name (ADR)	AEROSOLS (Propane ; isobutane)
Proper Shipping Name (IMDG)	AEROSOLS (Propane ; isobutane)
Proper Shipping Name (IATA)	Aerosols, flammable (Propane ; isobutane)
Proper Shipping Name (ADN)	AEROSOLS (Propane ; isobutane)
Proper Shipping Name (RID)	AEROSOLS (Propane ; isobutane)
<b>14.3. Transport hazard class(es)</b>	
<b>ADR</b>	
Transport hazard class(es) (ADR)	2.1
Danger labels (ADR)	2.1
<b>IMDG</b>	
Transport hazard class(es) (IMDG)	2.1
Danger labels (IMDG)	2.1
<b>IATA</b>	
Transport hazard class(es) (IATA)	2.1
Hazard labels (IATA)	2.1
<b>ADN</b>	
Transport hazard class(es) (ADN)	2.1
Danger labels (ADN)	2.1
<b>RID</b>	
Transport hazard class(es) (RID)	2.1
Danger labels (RID)	2.1
<b>14.4. Packing group</b>	
Packing group (ADR)	Not applicable
Packing group (IMDG)	Not applicable
Packing group (IATA)	Not applicable
Packing group (ADN)	Not applicable
Packing group (RID)	Not applicable
<b>14.5. Environmental hazards</b>	
Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available.
<b>14.6. Special precautions for user</b>	
<b>Overland transport</b>	
Classification code (ADR)	5F
Special provisions (ADR)	190, 327, 344, 625
Limited quantities (ADR)	1I
Packing instructions (ADR)	P207
Tunnel restriction code (ADR)	D
<b>Transport by sea</b>	
Special provisions (IMDG)	63, 190, 277, 327, 344, 381, 959
Packing instructions (IMDG)	P207, LP200
EmS-No. (Fire)	F-D
EmS-No. (Spillage)	S-U



<b>Stowage category (IMDG)</b>	None
<b>Air transport</b>	
PCA Excepted quantities (IATA)	E0
PCA Limited quantities (IATA)	Y203
PCA limited quantity max net quantity (IATA)	30kgG
PCA packing instructions (IATA)	203
PCA max net quantity (IATA)	75kg
CAO packing instructions (IATA)	203
CAO max net quantity (IATA)	150kg
Special provisions (IATA)	A145, A167, A802
ERG code (IATA)	10L
<b>Inland waterway transport</b>	
Classification code (ADN)	5F
Special provisions (ADN)	190, 327, 344, 625
Limited quantities (ADN)	1 L
<b>Rail transport</b>	
Classification code (RID)	5F
Special provisions (RID)	190, 327, 344, 625
Limited quantities (RID)	1L
Packing instructions (RID)	P207, LP200
Hazard identification number (RID)	23

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

Not applicable

### 15. SECTION 15: Regulatory information

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

##### EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006

Propane ; butane ; isobutane ; Ethane	40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.
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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

**VOC (EU)** Not applicable

**Seveso Information** P3a FLAMMABLE AEROSOLS  
'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1

##### National regulations

**Regulatory reference** WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)

**Employment restrictions** Observe restrictions according Act on the Protection of Working Mothers (MuSchG)

Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

**Hazardous Incident Ordinance (12. BImSchV)**

Listed in the 12. BImSchV (Annex I) under: 1.2.2  
Quantity threshold for operational area under § 1 para. 1

- Sentence 1: 10000 kg
- Sentence 2: 50000 kg

Listed in the 12. BImSchV (Annex I) under: 1.2.3.1  
Quantity threshold for operational area under § 1 para. 1

- Sentence 1: 150000 kg
- Sentence 2: 500000 kg

**15.2. Chemical safety assessment**

No additional information available.

**16. SECTION 16: Other information****Indication of changes**

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None.

**Abbreviations and acronyms**

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ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Occupational exposure limit value
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Federal Institute for Materials Research and Testing, Germany
BAT	Maximum permissible concentration of biological working substances.
BCF	Bio-concentration factor.
BLV	Biological limit values
BLV	Biological limit values (BGW, Austria)
BMGV	Biological Monitoring Guidance Value (EH40,UK).
BOD5	Biochemical oxygen demand within 5 days
BOD	Biochemical oxygen demand
bw	Body weight.
calcd.	Calculated
CAS	Chemical Abstract Service.
CEN	European Committee for Standardization
CESIO	European Committee on Organic Surfactants and their Intermediates.
COD	Chemical oxygen demand
CLP	Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR	Carcinogenic, Mutagenic or Reproduction Toxic Substances
CSA	Chemical safety assessment
CSR	Chemical Safety Report.
DMEL	Derived Minimum Effect Level.
DNEL	Derived no effect level
EAC	European waste catalogue
EC	European community
EC50	Effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EN	European norm.

ERC	ERC (Environmental Release category)
EU	European Union
GLP	Good Laboratory Practice.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
GW/VL	Occupational exposure limit value.
GW-kw/VL-cd	Occupational exposure limit value - short term.
GW-M/VL-M	Occupational exposure limit value – "Ceiling".
IATA	International Air Transport Association
IBC code	International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk).
ICAO	International Civil Aviation Organization
IC50	Inhibition Concentration 50%.
IECSC	Inventory of Existing Chemical Substances in China.
IMDG	International Maritime Dangerous Goods
ISO	International Standards Organization.
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal Concentration 50%.
LCLo	Lowest published lethal concentration.
LD50	Lethal Dose 50%.
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest observable effect concentration.
LOEL	Lowest observable effect level.
LQ	Limited quantities
TRK-Kzw	Threshold limit value - Short-term exposure limit / Technical reference concentration - short-time value, Austria.
MAK-Mow	Maximum allowable workplace concentration – instantaneous value, Austria.
MAK-Tmw, TRK-Tmw	Maximum allowable workplace concentration – daily mean value / Technical standard concentration – daily mean value, Austria.
MAK	Threshold limit values Germany.
MARPOL	International Convention for the Prevention of Pollution from Ships.
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
NOEL	no-observed-effect level
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limits
PBT	Persistent Bioaccumulative Toxic
PC (Chemical product category)	PC (Chemical product category)
PNEC	Predicted No-Effect Concentration
POCP	Photochemical ozone creation potential.
POP	Persistent Organic Pollutants
PPE	Personal protective equipment
Process category	Process category
REACH	Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

SCL	Specific concentration limit.
STEL	Short-term Exposure Limit
STP	Sewage treatment plant
SU (Sector of use)	SU (Sector of use)
SVHC	Substance of Very High Concern.
TLV	Threshold Limit Value
TRGS	Technical Rules for Hazardous Substances (German Standard).
TWA	Time Weighted Average
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
VbF	Ordinance on Flammable Liquids, Austria
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL-TWA	Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period).
WEL-STEL	Workplace Exposure Limit-Short term exposure limit (15-minute reference period).

**Data sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006..

**Full text of H- and EUH-statements**

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Aerosol 1	Aerosol, Category 1.
Flam. Gas 1	Flammable gases, Category 1.
Flam. Gas 1A	Flammable gases, Category 1A.
Press. Gas	Gases under pressure.
Press. Gas (Comp.)	Gases under pressure : Compressed gas.
H220	Extremely flammable gas..
H222	Extremely flammable aerosol..
H229	Pressurised container: May burst if heated..
H280	Contains gas under pressure; may explode if heated..

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]**

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Aerosol 1	H222;H229
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*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 information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.*