according to Regulation (EC) No 1907/2006

Cooling spray orange

Revision date: 24.07.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Cooling spray orange

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

Use of the substance/mixture

see product name

1.3. Details of the supplier of the safety data sheet

Company name:	Friedrich Huber aeronova GmbH	& Co.
Street:	Sobrigauer Weg 4	
Place:	D-01257 Dresden	
Telephone:	0049-(0)351-27046-0	Telefax: 0049-(0)351-2704616
E-mail:	info@aeronova.de	
Contact person:	Labor	Telephone: 0049-(0)351-2704615
E-mail:	labor@aeronova.de	
Internet:	www.aeronova.de	
1.4. Emergency telephone	0049-(0)351-27046-0	

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Aerosol 1; H222-H229

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008 Danger

Signal word:

Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.

Precautionary statements

outionaly olutor	
P101	If medical advice is needed, have product container or label at hand.
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.

Special labelling of certain mixtures

Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

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2.3. Other hazards

Refrigerated liquefied gas. Contact with the product can cause cold burns or frostbite. Even after use and until complete evaporation of the flammable components, there is still a danger of an explosive steam-air mixture forming.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No			
106-97-8	butane			60 - < 65 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Press. Gas (Liq.); H2	20 H280		
74-98-6	propane			25 - < 30 %
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Press. Gas (Liq.); H2	20 H280	•	
64-17-5	Ethanol			2.5 - < 5 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H3 ⁻	9	•	
67-63-0	Propan-2-ol	0.1 - < 0.5 %		
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	3; H225 H319 H336	•	
5989-27-5	(R)-p-mentha-1,8-diene			< 0.1 %
	227-813-5	601-029-00-7	01-2119529223-47	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sen H315 H317 H304 H400 H410			
101-86-0	alpha hexylzimtaldehyde			< 0.1 %
	202-983-3		01-2119533092-50	
	Skin Sens. 1B, Aquatic Acute 1, A	quatic Chronic 2; H317 H400	H411	

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc	Limits, M-factors and ATE	
64-17-5	200-578-6	Ethanol	2.5 - < 5 %
	inhalation: L0	250 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg Eye Irrit. 2; H319: >= 50 - 100	
67-63-0	200-661-7	Propan-2-ol	0.1 - < 0.5 %
	dermal: LD50) = 13900 mg/kg; oral: LD50 = 5840 mg/kg	
5989-27-5	227-813-5	(R)-p-mentha-1,8-diene	< 0.1 %
	oral: LD50 =	4400 mg/kg Aquatic Acute 1; H400: M=1	
101-86-0	202-983-3	alpha hexylzimtaldehyde	< 0.1 %
	Aquatic Acute	1; H400: M=10	

SECTION 4: First aid measures

4.1. Description of first aid measures

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General information

When in doubt or if symptoms are observed, get medical advice. If medical advice is needed, have product container or label at hand.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

Refrigerated liquefied gas. Contact with the product can cause cold burns or frostbite.

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 spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurized container: May burst if heated. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

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

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. 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

General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

For non-emergency personnel

Ventilate affected area. Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.3. Methods and material for containment and cleaning up

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For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not pierce or burn, even after use.

Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Aerosol

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
64-17-5	Ethanol			
Worker DNEL	, long-term	dermal	systemic	343 mg/kg bw/day
Consumer DN	IEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	87 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	114 mg/m³
Worker DNEL	., long-term	inhalation	systemic	380 mg/m³
67-63-0	Propan-2-ol			
Worker DNEL	, acute	inhalation	systemic	1000 mg/m³
Consumer DN	IEL, acute	inhalation	systemic	178 mg/m³
Consumer DN	IEL, acute	oral	systemic	51 mg/kg bw/day
Worker DNEL	., long-term	dermal	systemic	888 mg/kg bw/day
Worker DNEL	., long-term	inhalation	systemic	500 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	319 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	89 mg/m³
Consumer DN	IEL, long-term	oral	systemic	26 mg/kg bw/day
5989-27-5	(R)-p-mentha-1,8-diene			
Worker DNEL	, long-term	inhalation	systemic	66,7 mg/m³
Worker DNEL	, long-term	dermal	systemic	9,5 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	16,6 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	4,8 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	4,8 mg/kg bw/day

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PNEC values

CAS No	Name of agent	
Environmen	tal compartment	Value
64-17-5	Ethanol	
Freshwater		0,96 mg/l
Freshwater	(intermittent releases)	2,75 mg/l
Marine wate	r	0,79 mg/l
Freshwater	sediment	3,6 mg/kg
Marine sedi	ment	2,9 mg/kg
Secondary p	poisoning	380 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	580 mg/l
Soil		0,63 mg/kg
67-63-0	Propan-2-ol	
Freshwater		140,9 mg/l
Freshwater	(intermittent releases)	140,9 mg/l
Marine wate	r	140,9 mg/l
Freshwater	sediment	552 mg/kg
Marine sedi	ment	552 mg/kg
Secondary p	poisoning	160 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	2251 mg/l
Soil		28 mg/kg
5989-27-5	(R)-p-mentha-1,8-diene	
Freshwater		0,014 mg/l
Marine wate	r	0,0014 mg/l
Freshwater	sediment	3,85 mg/kg
Marine sedi	ment	0,385 mg/kg
Secondary p	poisoning	133 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	1,8 mg/l
Soil		0,763 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Suitable eye protection: Eye glasses with side protection EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable gloves type Gloves with long cuffs, heat insulating

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear anti-static footwear and clothing

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Respiratory protection

Usually no personal respirative protection necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid		
Colour:	colourless clear		
Odour:	fruity		
			Test method
Melting point/freezing point:		not determined	
Boiling point or initial boiling po	int and	< -20 °C	
boiling range:			
Flammability:		not determined	
Lower explosion limits:		1,5 vol. %	
Upper explosion limits:		10,9 vol. %	
Flash point:		< -20 °C	
Auto-ignition temperature:		365 °C	
Decomposition temperature:		not determined	
pH-Value:		not applicable	
Viscosity / kinematic:		not applicable	
Water solubility:		practically insoluble	
(at 20 °C)			
Solubility in other solvents			
not determined			
Partition coefficient n-octanol/w	/ater:	not determined	
Vapour pressure:		not determined	aplaulated
Density (at 20 °C): Relative vapour density:		0,572 g/cm ³ not determined	calculated
Particle characteristics:		not applicable	
		not applicable	
9.2. Other information			
Information with regard to ph	ysical hazard classes		
Explosive properties			
Heating may cause an exp Sustaining combustion:	osion.	No data available	
Oxidizing properties		No data avallable	
The product is not: oxidisin	a		
•	y.		
Other safety characteristics		not dotormined	
Evaporation rate:		not determined	
Solid content:		not determined	
SECTION 10: Stability and rea	ctivity		

10.1. Reactivity

Extremely flammable aerosol. Pressurized container: May burst if heated.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive

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mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
64-17-5	Ethanol							
	oral	LD50 mg/kg	6200	Rat	IUCLID			
	inhalation (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS			
67-63-0	Propan-2-ol							
	oral	LD50 mg/kg	5840	Rat		OECD 401		
	dermal	LD50 mg/kg	13900	Rabbit		OECD 402		
5989-27-5	(R)-p-mentha-1,8-diene							
	oral	LD50 mg/kg	4400	Rat				

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met. Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

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SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
64-17-5	Ethanol						
	Acute crustacea toxicity	EC50 14221 mg/	9268 -	48 h	Daphnia magna	IUCLID	
67-63-0	Propan-2-ol						
	Acute fish toxicity	LC50 mg/l	10000	96 h		REACh Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EL50 mg/l	9714	48 h	Daphnia magna (Big water flea)		OECD 202
	Fish toxicity	NOEC mg/l	> 1000	28 d	Danio rerio	REACh Registration Dossier	other: REACH Guidance on QSARs R.6
	Crustacea toxicity	NOEC mg/l	> 1000	21 d		REACh Registration Dossier	other: REACH Guidance on QSARs R.6
	Acute bacteria toxicity	EC50 mg/l()	>100				

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name							
	Method	Value	d	Source				
	Evaluation							
67-63-0	Propan-2-ol							
	Biodegradation	95%	21					
	Readily biodegradable (according to OECD criteria).							

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
74-98-6	propane	2,36
64-17-5	Ethanol	-0,31
67-63-0	Propan-2-ol	0,05

BCF

CAS No	Chemical name	BCF	Species	Source	
67-63-0	Propan-2-ol	0,994		Meylan,WM, Howard,PH	

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No further relevant information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID) 14.1. UN number or ID 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 Excepted quantity: E0 Transport category: 2 D Tunnel restriction code: Inland waterways transport (ADN) 14.1. UN number or ID 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 Excepted quantity: E0 Marine transport (IMDG)

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<u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1950 AEROSOLS 2.1 - 2.1 2.1			
Special Provisions: Limited quantity: Excepted quantity: EmS:	63 190 277 327 344 381 1000 mL E0 F-D, S-U	959		
Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1950 AEROSOLS, FLAMMAB 2.1 - 2.1	LE		
Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	A145 A167 A802 30 kg G Y203 E0 203 75 203 150	kg		
14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS:	No			
14.6. Special precautions for user Warning: Flammable gases. 14.7. Maritime transport in bulk according to not applicable				
SECTION 15: Regulatory information				
 <u>15.1. Safety, health and environmental regulatory information</u> Restrictions on use (REACH, annex XVII): Entry 3, Entry 40 Directive 2010/75/EU on industrial emissions: Directive 2004/42/EC on VOC in 	lations/legislation specific 99,992 % (571,952 g/l) 99,994 % (571,964 g/l)	c for the substance or mixture		
paints and varnishes:				

Information according to Directive P3a FLAMMABLE AEROSOLS

2012/18/EU (SEVESO III):

Additional information

To follow: 850/2004/EC, 1107/2009/EC, 649/2012/EC Aerosol Directive (75/324/).

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National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	1 - slightly hazardous to water
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,3,4,5,6,7,8,9,11,12,14,15,16.

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Abbreviations and acronyms Flam. Gas: Flammable gases Aerosol: Aerosols Press. Gas (Liq.): Liquefied gas Flam. Liq: Flammable liquid Asp. Tox: Aspiration hazard Skin Irrit: Skin irritation Eye Irrit: Eye irritation Skin Sens: Skin sensitisation STOT SE: Specific target organ toxicity - single exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Eye Irrit. 2; H319	Bridging principle "Aerosols"

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
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.
EUH208	Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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