

POWER FRESH CITRUS

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Revision date			

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

- 1.1. Product identifier**
Substance / mixture: POWER FRESH CITRUS mixture
Number: CITRUS 1 34401
UFI: 3F72-2V97-130X-0YKV
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Air freshener.
Mixture uses advised against
For professional use only.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name: RETECH, s.r.o.
Address: Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (CRN): 25018205
VAT Reg No: CZ25018205
Phone: +420327596428
E-mail: info@retech.cz
Web address: www.retech.com
- Competent person responsible for the safety data sheet**
Name: RETECH, s.r.o.
E-mail: info@retech.cz
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H222, H229
Eye Irrit. 2, H319
Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

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

Most serious adverse effects on human health and the environment

Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

- 2.2. Label elements**

Hazard pictogram**Signal word**

Danger

Hazard statements

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

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H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	
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.
P261	Avoid breathing vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
Supplemental information	
EUH208	Contains (R) -p-mentha-1,8-diene. May produce an allergic reaction.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68476-85-7 EC: 270-704-2	Petroleum gases, liquefied	60-100	Flam. Gas 1A, H220 Press. Gas (liquefied gas), H280	
CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	10-30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
CAS: 5989-27-5 EC: 227-813-5	(R) -p-mentha-1,8-diene	<1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures
4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. Use personal protective equipment for work.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Keep the affected person warm and at rest. Provide medical treatment if irritation, dyspnoea or other symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

If on skin

Immediately wash with water and soap and rinse thoroughly.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical advice.

If swallowed

Unlikely. Rinse out the mouth with clean water. In the event of issues, find medical help. Do not induce vomiting unless directed to do so by medical personnel.

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

May cause respiratory irritation. Dizziness, headaches, nausea.

If on skin

Repeated exposure may cause skin dryness or cracking.

If in eyes

Causes serious eye irritation. Burning. Irritation, pain.

If swallowed

Unlikely. Irritation, nausea. Stomach pain, vomiting.

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

Symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

The mixture is flammable. Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

Pressurised container: May burst if heated. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Vapours mixed up with air can be explosive. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. EN 469 - Protective clothing for firefighters - Performance requirements for protective clothing for firefighting. Do not breathe smoke. Evacuate area. Move containers from fire area if safe to do. Closed containers with the product near the fire should be cooled with water. Cool containers exposed to flames with water until well after the fire is out. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water. In the event of substantial pollution, contact respective authorities.

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

Provide sufficient ventilation. Evacuate area. Extremely flammable aerosol. Pressurised container: May burst if heated. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Remove all ignition sources. No smoking. Take action to prevent static discharges. Use personal protective equipment as per Section 8. No action shall be taken involving any personal risk or without suitable training.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Not considered to be a significant hazard due to the small quantities used.

6.3. Methods and material for containment and cleaning up

In case of leakage, eliminate all ignition sources. No smoking. Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Ventilate the room. Small amount of the product can be wiped out with dry cloth. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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

Do not handle until all safety precautions have been read and understood. Use personal protective equipment as per Section 8. The mixture is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Spray will evaporate and cool quickly and may cause frostbite or cold burns if in contact with skin. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Observe valid legal regulations on safety and health protection. Wash hands and exposed parts of the body thoroughly after handling. Take off contaminated clothing. And wash it before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Keep containers upright. Protect containers from damage. Store in accordance with local regulations.

7.3. Specific end use(s)

not available

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

The mixture contains substances for which occupational exposure limits are set.

DNEL

(R) -p-mentha-1,8-diene

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	33.3 mg/m ³	Systemic chronic effects		
Workers	Dermal	0.222 mg/cm ²	Local acute effects		
Consumers	Inhalation	8.33 mg/m ³	Systemic chronic effects		
Consumers	Dermal	0.111 mg/cm ²	Local acute effects		
Consumers	Oral	4.76 mg/kg bw/day	Systemic chronic effects		

propan-2-ol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	500 mg/m ³	Systemic chronic effects		
Workers	Dermal	888 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	89 mg/m ³	Systemic chronic effects		
Consumers	Dermal	319 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	26 mg/kg bw/day	Systemic chronic effects		

PNEC

(R) -p-mentha-1,8-diene

Route of exposure	Value	Value determination	Source
Freshwater environment	5.4 µg/l		
Seawater	0.54 µg/l		
Water (intermittent release)	3.6 µg/l		
Microorganisms in wastewater treatment plants	0.2 mg/l		
Freshwater sediment	1.322 mg/kg		
Sea sediments	0.132 mg/kg		

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(R) -p-mentha-1,8-diene

Route of exposure	Value	Value determination	Source
Soil (agricultural)	0.262 mg/kg		
Oral	133 mg/kg		

propan-2-ol

Route of exposure	Value	Value determination	Source
Freshwater environment	140.9 mg/l		
Seawater	140.9 mg/l		
Microorganisms in wastewater treatment plants	2251 mg/l		
Freshwater sediment	552 mg/kg of dry substance of sediment		
Sea sediments	552 mg/kg of dry substance of sediment		
Soil (agricultural)	28 mg/kg of dry substance of soil		
Food chain	160 mg/kg of food		

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Observe any occupational exposure limits for the product or ingredients. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Do not eat, drink and smoke during work.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Under regular circumstances it is not necessary. Other protection: protective workwear.

Respiratory protection

If exposure limits cannot be observed in this mode, suitable protection of airways must be used.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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

Physical state	gas
Colour	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	-40 - -2 °C
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	
bottom	1,4 % (LPG)
upper	10,9 % (LPG)
Flash point	-104 °C (LPG)
Auto-ignition temperature	365 °C (LPG)
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available

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Vapour pressure	data not available
Density and/or relative density	data not available
Form	aerosol dispenser: spray aerosol

9.2. Other information

Evaporation rate	non-applicable
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SECTION 10: Stability and reactivity
10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Oxidizing agent.

10.4. Conditions to avoid

Protect against flames, sparks, overheating and against frost. Protect from sunlight. Pressurised container: May burst if heated.

10.5. Incompatible materials

Protect against strong oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

(R) -p-mentha-1,8-diene

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀	>2000 mg/kg		Rat		Read-across

propan-2-ol

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀	5840 mg/kg		Rat		
Dermal	LD ₅₀	13120 mg/kg		Rabbit		
Inhalation (vapor)	LC ₅₀	>10000 ppm	6 hour	Rat		

Skin corrosion/irritation

Based on available data the classification criteria are not met.

(R) -p-mentha-1,8-diene

Route of exposure	Result	Exposure time	Species
	Irritating		Rabbit

propan-2-ol

Route of exposure	Result	Exposure time	Species
	Not irritating	4 hour	Rabbit

Serious eye damage/irritation

Causes serious eye irritation.

(R) -p-mentha-1,8-diene

Route of exposure	Result	Exposure time	Species	Source
	Not irritating		Rabbit	0,1 ml

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propan-2-ol

Route of exposure	Result	Exposure time	Species	Source
	Slightly irritating	14 day	Rabbit	

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

(R) -p-mentha-1,8-diene

Route of exposure	Result	Exposure time	Species	Sex	Value determination	Source
Skin	Sensitizing		Mouse			

propan-2-ol

Route of exposure	Result	Exposure time	Species	Sex	Value determination	Source
	Not sensitizing		Guinea-pig		Experimentally	Bühler test

Germ cell mutagenicity

Based on available data the classification criteria are not met.

(R) -p-mentha-1,8-diene

Result	Exposure time	Specific target organ	Species	Sex	Source
Negative					in vitro
Negative					in vivo

propan-2-ol

Result	Exposure time	Specific target organ	Species	Sex	Source
Negative					in vitro
Negative					in vivo

Carcinogenicity

Based on available data the classification criteria are not met.

(R) -p-mentha-1,8-diene

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	≥250-≤500 mg/kg bw/day	Not carcinogenic	Mouse		

propan-2-ol

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Inhalation	NOEL	5000 ppm	Not carcinogenic	Rat		IARC 3

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

(R) -p-mentha-1,8-diene

Route of exposure	Parameter	Value	Result	Species	Sex
Oral	NOAEL	825 mg/kg bw/day		Rat	

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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SECTION 12: Ecological information
12.1. Toxicity
Acute toxicity

Harmful to aquatic life with long lasting effects.

(R) -p-mentha-1,8-diene

Parameter	Value	Exposure time	Species	Environment	Value determination
LC ₅₀	0.72 mg/l	96 hour	Fishes (Pimephales promelas)		
EC ₅₀	0.307 mg/l	48 hour	Daphnia (Daphnia magna)		
EC ₅₀	0.32 mg/l	72 hour	Algae and other aquatic plants (Pseudokirchneriella subcapitata)		
EC 10	0.174 mg/l	72 hour	Algae and other aquatic plants (Pseudokirchneriella subcapitata)		
EC ₅₀	209 mg/l	3 hour	Microorganisms (Activated sludge)		Read-across

propan-2-ol

Parameter	Value	Exposure time	Species	Environment	Value determination
LC ₅₀	10000 mg/l	96 hour	Fishes (Pimephales promelas)		
LC 0	5000 mg/l	24 hour	Daphnia (Daphnia magna)		
LC ₅₀	>10000 mg/l	24 hour	Daphnia (Daphnia magna)		

12.2. Persistence and degradability
Biodegradability

(R) -p-mentha-1,8-diene

Parameter	Value	Exposure time	Environment	Value determination	Result
	80 %	28 day	Freshwater	Read-across	

propan-2-ol

Parameter	Value	Exposure time	Environment	Value determination	Result
	53 %	5 day			Easily biodegradable

not available

12.3. Bioaccumulative potential

(R) -p-mentha-1,8-diene

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	4.38				

Not available.

12.4. Mobility in soil

(R) -p-mentha-1,8-diene

Parameter	Value	Environment	Temperature	Value determination
Koc	1120			Calculation of value

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

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12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information**14.1. UN number or ID number**

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

14.5. Environmental hazards

No.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

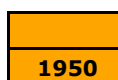
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



5F

2.1

**Marine transport - IMDG**

EmS (emergency plan)

F-D, S-U

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th 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, as amended.

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15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

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.
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.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

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.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P261	Avoid breathing vapours/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

A list of additional standard phrases used in the safety data sheet

EUH208	Contains (R) -p-mentha-1,8-diene. May produce an allergic reaction.
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Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry

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LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEL	No observed adverse effect level
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Aerosol	Aerosol
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from 18 February 2020. Changes were made in sections 2, 11, 12, 13, 15 and 16.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.