

B-CLEAN

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

- 1.1. Product identifier**
Substance / mixture B-CLEAN
Number mixture
1 35018 - 30L
UFI 9000-TOHD-8001-TGEE
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Cleaning agent. Degreasing agent.
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.

Flam. Liq. 2, H225
Asp. Tox. 1, H304
Skin Irrit. 2, H315
Skin Sens. 1, H317
STOT SE 3, H336
Aquatic Chronic 2, H411

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

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

- 2.2. Label elements**
Hazard pictogram

**Signal word**

Danger

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Hazardous substances

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
 Hydrocarbons, C6, isoalkanes, <5% n-hexane
 propan-2-ol
 Limonene

Hazard statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic 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.
P243	Take action to prevent static discharges.
P261	Avoid breathing vapours/spray.
P273	Avoid release to the environment.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.

Supplemental information

Density	0,7 g/cm ³
VOC	
VOC limit value	cat. B (a) : 850 g/l
Max. VOC content in the product in its ready to use condition	<850

2.3. Other hazards

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: 64742-49-0 EC: 921-024-6 Registration number: 01-2119475514-35	hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	40-50	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
CAS: 64742-49-0 EC: 931-254-9 Registration number: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane	40-50	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	1-<5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
CAS: 8028-48-6 EC: 232-433-8 Registration number: 01-2119493353-35	Orange, sweet, ext.	≤1	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
Index: 601-029-00-2 CAS: 5989-27-5 EC: 227-813-5	Limonene	≤1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	

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. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards. In the event of unconsciousness, do not provide food by mouth. Remove contaminated clothes immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. If the affected person is not breathing, breathing is irregular or in respiratory arrest provide artificial respiration or oxygen. If aspiration into the lungs is suspected, e.g. when vomiting, admit to hospital immediately. In the event of issues, find medical advice.

If on skin

Remove contaminated clothes immediately. 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. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Ensure calm environment for body and mind. Rinse out the mouth with clean water. DO NOT INDUCE VOMITING! If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Symptoms of poisoning may manifest after many hours, medical supervision is necessary for 48 hours after the accident. Do not provide anything to eat or drink. Provide medical treatment. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

If inhaled

The central nervous system may be affected. Nausea. Unconsciousness. May cause respiratory irritation.

If on skin

not available

If in eyes

not available

If swallowed

Possible irritation.

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

Symptomatic treatment.

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

Foam. Carbon dioxide. Powder. Water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations.

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

Provide sufficient ventilation. Highly flammable liquid and vapour. Vapors from gases are heavier than air. Prevent vapors from entering drains. Remove all ignition sources. Use personal protective equipment for work. Keep unprotected persons away. Do not eat, drink and smoke during work. Follow the instructions in the Sections 7 and 8. Do not inhale vapours.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Risk of formation of explosive vapours above water surface.

6.3. Methods and material for containment and cleaning up

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. Use non-sparking tools. Use explosion-proof electrical equipment.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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

Use personal protective equipment as per Section 8. Use only outdoors or in a well-ventilated area. Do not inhale vapours. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical equipment. Take action to prevent static discharges. Do not use compressed air for filling, emptying or another handling. Ensure that there is no splashes. Observe valid legal regulations on safety and health protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands and exposed parts of the body thoroughly after handling.

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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not expose to sunlight. Keep only in original packaging. Keep container tightly closed. Prevent other leakage. Keep cool. Use explosion-proof electrical equipment. Do not store together with oxidising agent. Do not store together with acids.

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

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	13964 mg/kg bw/day	Systemic chronic effects		

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Hydrocarbons, C6, isoalkanes, <5% n-hexane

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	5306 mg/m ³ /8h	Systemic chronic effects		
Consumers	Dermal	1377 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	1131 mg/m ³ /24h	Systemic chronic effects		
Consumers	Oral	1301 mg/kg bw/day	Systemic chronic effects		

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	699 mg/kg bw/day	Systemic chronic effects		
Consumers	Dermal	699 mg/kg bw/day	Systemic chronic effects		
Workers	Dermal	773 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	608 mg/m ³	Systemic chronic effects		
Workers	Inhalation	2035 mg/m ³	Systemic chronic effects		

propan-2-ol

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

PNEC

propan-2-ol

Route of exposure	Value	Value determination	Source
Freshwater environment	140.9 mg/l		
Seawater	140.9 mg/l		
Freshwater sediment	552 mg/kg		
Sea sediments	552 mg/kg		
Soil (agricultural)	28 mg/kg		

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8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Use personal protective equipment for work. Do not eat, drink and smoke during work. Take off contaminated clothing. And wash it before reuse. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Do not inhale gases and vapours. Do not inhale aerosols. Prevent contact with skin and eyes.

Eye/face protection

In case of splash use safety glasses or face shield.

Skin protection

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. Material of gloves: Nitrile rubber, NBR. Butyl rubber. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Wash contaminated reusable gloves with water before removing and store in a well-ventilated place.

When handling in long-term or repeatedly, use protective gloves:

Nitrile rubber (Penetration time of glove material: ≥ 480 min. Recommended thickness of the material: ≥ 0.55 mm).

PVA (Penetration time of glove material: ≥ 480 min. Recommended thickness of the material: ≥ 0.15 mm).

Fluororubber (Penetration time of glove material: ≥ 480 min. Recommended thickness of the material: ≥ 0.5 mm).

In case of splashing risk:

Nitrile rubber (Penetration time of glove material: >60 min. Recommended thickness of the material: ≥ 0.38 mm).

Chloroprene rubber. Neoprene (Penetration time of glove material: >60 min. Recommended thickness of the material: ≥ 0.75 mm).

Other protection: protective workwear. Wash contaminated clothing before reuse.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter A/P2. The protection provided by masks is in any case limited.

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	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	51-61 °C (uhlovodíky C6 - ASTM D 1078)
Boiling point or initial boiling point and boiling range	61-94 °C (Uhllovodíky C6-C7 - ISO 3405)
Boiling point or initial boiling point and boiling range	82-83 °C (propan-2-ol)
Flammability	Highly flammable liquid and vapour.
Lower and upper explosion limit	
bottom	0,8 %
upper	8,0 %
Flash point	<-35 °C (uhlovodíky C6 - ASTM D 93)
Flash point	-35 °C (Uhllovodíky C6-C7 - ISO 13736)
Flash point	13 °C (propan-2-ol)
Auto-ignition temperature	>230 °C (Uhllovodíky)
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	113 hPa at 20 °C (Uhllovodíky C6-C7)
Density and/or relative density	
Density	0,7 g/cm ³

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Form	liquid
data not available	
9.2. Other information	
Evaporation rate	2-3 (EtEt=1 DIN 53170)
Explosive properties	The product does not have explosive properties. Vapours mixed up with air can be explosive.
Oxidising properties	It is not oxidising.
VOC limit value	cat. B (a) : 850 g/l
Max. VOC content in the product in its ready to use condition	<850

SECTION 10: Stability and reactivity
10.1. Reactivity

The product is stable and no degradation occurs under normal use.

10.2. Chemical stability

The product is stable under normal conditions. Excessively high temperatures can cause thermal decomposition.

10.3. Possibility of hazardous reactions

Protect against strong acids and oxidizing agents.

10.4. Conditions to avoid

Heat. Protect against flames, sparks, overheating. Take action to prevent static discharges.

10.5. Incompatible materials

Protect against strong acids and oxidizing agents.

10.6. Hazardous decomposition products

Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

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.

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	>16750 mg/kg bw		Rat	
Dermal	LD ₅₀	OECD 402	>3350 mg/kg bw	4 hour	Rabbit	
Inhalation (vapor)	LC ₅₀	OECD 403	259354 mg/m ³	4 hour	Rat	

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>5840 mg/kg		Rat	
Dermal	LD ₅₀		>2920 mg/kg		Rabbit	
Inhalation	LC ₅₀		>25 mg/l	4 hour	Rat	

propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>2000 mg/kg		Rat	
Dermal	LD ₅₀		>2000 mg/kg		Rabbit	

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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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.

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

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.

SECTION 12: Ecological information
12.1. Toxicity
Acute toxicity

Toxic to aquatic life with long lasting effects.

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
ErL50		13.6 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		QSAR
EL 50		31.9 mg/l	48 hour	Daphnia (Daphnia magna)		QSAR
LL 50		18.3 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		QSAR
NOELR		3 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		QSAR, Indicator of growth

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LL 50	OECD 203	11.4 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		
EL 50	OECD 202	3 mg/l	48 hour	Daphnia (Daphnia magna)		
ErL 50	OECD 201	30-100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		
EbL50	OECD 201	10-30 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		

propan-2-ol

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₅₀		>100 mg/l	48 hour	Fishes (Leuciscus idus)		
EC ₅₀		>100 mg/l	48 hour	Daphnia (Daphnia magna)		

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Parameter	Method	Value	Exposure time	Species	Environment	Value determination
EC ₅₀		>100 mg/l	72 hour	Algae (Scenedesmus subspicatus)		

Chronic toxicity

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
NOELR		7.14 mg/l	21 day	Daphnia (Daphnia magna)		QSAR
NOELR		4.09 mg/l	28 day	Fishes (Oncorhynchus mykiss)		QSAR

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
NOEL	OECD 201	3 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		Indicator of growth
NOEL	OECD 201	3 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)		Biomass
NOELR	OECD 211	1 mg/l	21 day	Daphnia (Daphnia magna)		
NOELR		2.04 mg/l	28 day	Fishes (Oncorhynchus mykiss)		QSAR

12.2. Persistence and degradability

Biodegradability

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	98 %	28 day		Easily biodegradable

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	98 %	28 day		Easily biodegradable

Not available.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Adsorption to the solid soil phase is not expected. The product is insoluble in water. Floats on water.

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.

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

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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. Dispose unused product as hazardous 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.

Waste type code

07 01 04 other organic solvents, washing liquids and mother liquors *
14 06 03 other solvents and solvent mixtures *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *
(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 3295

14.2. UN proper shipping name

HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C6, isoalkanes, <5% n-hexane; hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

Yes

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



F1

3+ hazardous for the environment



Road transport - ADR

Limited quantities

1 L

Excepted quantities

E1

Transport category

2

Railway transport - RID

Transport category

2

Marine transport - IMDG

EmS (emergency plan)

F-E, S-D

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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. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

Additional information in accordance with Regulation (EC) no. 648/2004 on detergents, as amended

>=30 % aliphatic hydrocarbons, perfumes, Linalool, Limonene

15.2. Chemical safety assessment

not available

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.

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.
P243	Take action to prevent static discharges.
P261	Avoid breathing vapours/spray.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310	Immediately call a doctor.
P273	Avoid release to the environment.
P403+P235	Store in a well-ventilated place. Keep cool.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
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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
EL ₅₀	Effective Loading for 50% of the tested organisms

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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
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
LL ₅₀	Lethal Loading for 50% of tested organisms
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
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
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
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 2.0 replaces the SDS version from 28 November 2017. Changes were made in sections 2, 3, 8, 11, 12, 13, 15 and 16.

Statement

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

B-CLEAN

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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.