Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Trade name :	PROLAQ L US		
Revision date :	24.06.2024	**Version (Revision) :**	3.1.1 (3.1.0)
Print date :	24.06.2024		

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

1.1 Product identifier
PROLAQ L US
Unique Formula Identifier : VF30-E0D3-M002-9SEA

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
PC 35 - Washing and cleaning products

1.3 Details of the supplier of the safety data sheet
Supplier
Bio-Circle Surface Technology GmbH
Street : Gewerbestraße 1
Postal code/City : 4653 Eberstalzell
Telephone : +43 7241 59 400
Telefax : +43 7241 59 400 10
Information contact : service@bio-circle.at

1.4 Emergency telephone number
+43 1 4064343 Vergiftungsinformationszentrale

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP]
Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms

Exclamation mark (GHS07)

Signal word
Warning

Hazard statements

H319	Causes serious eye irritation.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.

2.3 Other hazards
None

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Hazardous ingredients

1-butylpyrrolidin-2-one ; REACH No. : 01-2120062728-48-XXXX ; EC No. : 222-437-8; CAS No. : 3470-98-2
Weight fraction : ≥ 5 - < 10 %
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

BENZYL ALCOHOL ; REACH No. : 01-2119492630-38-XXXX ; EC No. : 202-859-9; CAS No. : 100-51-6
Weight fraction : ≥ 5 - < 10 %
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319

POTASSIUM CUMENESULFONATE ; REACH No. : 01-2119489427-24-XXXX ; EC No. : 629-764-9; CAS No. : 164524-02-1
Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

SODIUM CUMENESULPHONATE ; REACH No. : 01-2119489411-37-XXXX ; EC No. : 239-854-6; CAS No. : 15763-76-5
Weight fraction : ≥ 1 - < 5 %
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Additional information
For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation
Remove casualty to fresh air and keep warm and at rest.

In case of skin contact
After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact
Protect uninjured eye. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion
Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed
Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed
None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Water Foam Extinguishing powder Carbon dioxide (CO2) Sand Nitrogen Extinguishing blanket

Unsuitable extinguishing media
Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO2)

5.3 Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. 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

Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against : Frost .

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2

Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	5 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	4,29 mg/m^3
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	4 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Short-term
Limit value :	4 mg/kg bw/day
Limit value type :	DMEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	10 mg/kg bw/day
Limit value type :	DMEL worker (systemic)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 24,1 mg/m³

BENZYL ALCOHOL ; CAS No. : 100-51-6
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 5,4 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 27 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 4 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 20 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 4 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Short-term
Limit value : 20 mg/kg bw/day
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 22 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 110 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 8 mg/kg bw/day
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 40 mg/kg bw/day

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : DNEL Consumer (local)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 0,048 mg/cm²
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 6,6 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term

Limit value :	68,1 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	3,8 mg/kg bw/day
Limit value type :	DNEL worker (local)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	0,096 mg/cm^2
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	37,4 mg/m^3
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	191 mg/kg bw/day

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5

Limit value type :	DNEL Consumer (local)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	0,048 mg/cm^2
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	6,6 mg/m^3
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	68,1 mg/kg bw/day
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	3,8 mg/kg bw/day
Limit value type :	DNEL worker (local)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	0,096 mg/cm^2
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	37,4 mg/m^3
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	191 mg/kg bw/day

PNEC

1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2

Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	4 mg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Limit value :	1 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,4 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	20,168 mg/kg dry weight

Limit value type : PNEC (Sediment, marine water)
Limit value : 2,017 mg/kg dry weight
Limit value type : PNEC (Soil)
Limit value : 1,68 mg/kg dry weight
Limit value type : PNEC (Sewage treatment plant)
Limit value : 30,62 mg/l

BENZYL ALCOHOL ; CAS No. : 100-51-6
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 1 - 1,02 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Limit value : 2,3 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,1 - 0,102 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 5,27 mg/kg dw
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,527 mg/kg dw
Limit value type : PNEC (Soil)
Limit value : 0,456 mg/kg dw
Limit value type : PNEC (Sewage treatment plant)
Limit value : 39 mg/l

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,1 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Limit value : 1 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,01 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 0,372 mg/kg dw
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,0372 mg/l
Limit value type : PNEC (Soil)
Limit value : 0,016 mg/kg dw
Limit value type : PNEC (Sewage treatment plant)
Limit value : 100 mg/l

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,1 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Limit value : 1 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,01 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 0,372 mg/kg dw
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,0372 mg/kg dw
Limit value type : PNEC (Soil)
Limit value : 0,016 mg/kg dw
Limit value type : PNEC (Sewage treatment plant)
Limit value : 100 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Wear suitable safety goggles in case of splash.

Suitable eye protection

EN 166.

Skin protection

Hand protection

Suitable gloves type : EN 374.

Suitable material : NBR (Nitrile rubber)

Breakthrough time : 480 min.

Thickness of the glove material : 0.4 mm

Remark : 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. 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.

Respiratory protection

Usually no personal respirative protection necessary.

General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : colourless

Odour

characteristic

Safety characteristics

Melting point/freezing point :	(1013 hPa)	approx.	-4	°C	
Initial boiling point and boiling range :	(1013 hPa)	approx.	100	°C	
Flash point :			not applicable		DIN EN ISO 13736
Flash point :			not applicable		DIN EN ISO 2592
Auto-ignition temperature :			not determined		
Flammability :			non-flammable		
Lower explosion limit :			not relevant		
Upper explosion limit :			not relevant		
Vapur pressure :	(20 °C)	<	25	hPa	Calculated
Density :	(20 °C)	approx.	1,02	g/cm^3	

Water solubility :	(20 °C)		completely miscible	
pH :	(20 °C)	approx.	7	
Relative vapour density :	(20 °C)		not determined	
Maximum VOC content (EC) :			5	Weight-%
Maximum VOC content (Switzerland) :			13	Weight-%
Taxable VOC content (Switzerland) :			8	Weight-%

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.
Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

Acute toxicity

Acute oral toxicity

Parameter :	ATEmix
Exposure route :	Oral
Effective dose :	> 2000 mg/kg

Acute dermal toxicity

Parameter :	ATEmix
Exposure route :	Dermal
Effective dose :	> 2000 mg/kg

Acute inhalation toxicity

Parameter :	ATEmix
Exposure route :	Inhalation
Effective dose :	> 20 mg/l

Corrosion

Skin corrosion/irritation

Parameter :	Skin corrosion/irritation (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species :	Albino rabbit
Result :	Irritant
Method :	OECD 404

Assessment/classification

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

Serious eye damage/eye irritation

Parameter :	Serious eye damage/eye irritation (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species :	Albino rabbit
Result :	Causes serious eye irritation
Method :	OECD 405
Parameter :	Serious eye damage/eye irritation (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Albino rabbit
Result :	Causes serious eye irritation
Method :	OECD 405
Parameter :	Serious eye damage/eye irritation (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species :	Rabbit
Result :	Causes serious eye irritation
Method :	OECD 405
Parameter :	Serious eye damage/eye irritation (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Species :	Rabbit
Result :	Causes serious eye irritation
Method :	OECD 405

Result / Evaluation

Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation

No further relevant information available.

Sensitisation to the respiratory tract

No further relevant information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No further relevant information available.

Germ cell mutagenicity

No further relevant information available.

Reproductive toxicity

No further relevant information available.

STOT-single exposure

No further relevant information available.

STOT-repeated exposure

No further relevant information available.

Aspiration hazard

No further relevant information available.

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.

Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Other adverse effects

Has degreasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

Additional information

Preparation not tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC50 (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	460 mg/l
Exposure time :	96 h
Parameter :	LC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species :	Cyprinus carpio (Common Carp)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	96 h
Parameter :	LC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Species :	Cyprinus carpio (Common Carp)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/kg
Exposure time :	96 h

Chronic (long-term) fish toxicity

Parameter :	NOEC (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	82 mg/l
Exposure time :	33 D
Method :	OECD 210

Acute (short-term) toxicity to crustacea

Parameter :	EC50 (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	> 100 mg/l
Exposure time :	48 h
Method :	OECD 202
Parameter :	EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	230 mg/ml
Exposure time :	48 h
Method :	OECD 202
Parameter :	EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	> 100 mg/l
Exposure time :	48 h
Parameter :	EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) toxicity to crustacea
Effective dose :	> 100 mg/l
Exposure time :	48 h

Chronic (long-term) toxicity to aquatic invertebrate

Parameter :	NOEC (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Chronic (long-term) daphnia toxicity
Effective dose :	100 mg/l
Exposure time :	21 D
Method :	OECD 211
Parameter :	NOEC (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Chronic (long-term) toxicity to aquatic invertebrate
Effective dose :	51 mg/l
Exposure time :	21 D
Method :	OECD 211

Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	EC50 (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species :	Pseudokirchneriella subcapitata
Evaluation parameter :	Inhibition of biomass development
Effective dose :	130 mg/l
Exposure time :	72 h
Method :	OECD 201
Parameter :	EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Pseudokirchneriella subcapitata
Evaluation parameter :	Inhibition of growth rate
Effective dose :	770 mg/l
Exposure time :	72 h
Method :	OECD 201
Parameter :	EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species :	Desmodesmus subspicatus
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	> 100 mg/l
Exposure time :	72 h
Parameter :	EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Species :	Desmodesmus subspicatus
Evaluation parameter :	Acute (short-term) toxicity to algae and cyanobacteria
Effective dose :	> 100 mg/l
Exposure time :	72 h

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter :	NOEC (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Species :	Pseudokirchneriella subcapitata
Evaluation parameter :	Inhibition of growth rate
Effective dose :	40 mg/l
Exposure time :	72 h
Method :	OECD 201

Toxicity to microorganisms

Parameter :	EC50 (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Species :	Toxicity to microorganisms
Effective dose :	2100 mg/l
Exposure time :	49 h
Parameter :	EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Species :	Toxicity to microorganisms
Effective dose :	> 1000 mg/l
Exposure time :	3 h
Parameter :	EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Species :	Toxicity to microorganisms
Effective dose :	> 1000 mg/l

12.2 Persistence and degradability

Biodegradation

Parameter :	BOD (% of ThOD) (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	0 %
Test duration :	28 D
Evaluation :	Not readily biodegradable (according to OECD criteria)
Method :	OECD 301D
Parameter :	BOD (% of ThOD) (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	100 %
Test duration :	56 D
Evaluation :	Biodegradable.
Method :	OECD 301C
Parameter :	DOC reduction (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	81 %
Test duration :	112 D
Evaluation :	Biodegradable.
Method :	OECD 301B
Parameter :	Biodegradation (BENZYL ALCOHOL ; CAS No. : 100-51-6)
Inoculum :	Biodegradation
Degradation rate :	95 - 97 %
Test duration :	21 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301A
Parameter :	Biodegradation (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	99,8 %
Test duration :	28 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301B
Parameter :	Biodegradation (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Inoculum :	Biodegradation
Evaluation parameter :	Aerobic
Degradation rate :	99,8 %
Test duration :	28 D
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301B

12.3 Bioaccumulative potential

Parameter :	Partition coefficient n-octanol/water (log value) (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Value :	1,265

No indication of bioaccumulation potential.

12.4 Mobility in soil

Adsorption

Parameter :	Adsorption coefficient (1-butylpyrrolidin-2-one ; CAS No. : 3470-98-2)
Inoculum :	Mobility in soil
Effective dose :	43,2

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.

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 information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

07 06 01* (Aqueous washing liquids and mother liquors)
20 01 29* (Detergents containing hazardous substances)

Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/container to an appropriate recycling or disposal facility. Contaminated packages must be completely emptied and can be re-used following proper cleaning (Water (with cleaning agent)). Handle contaminated packages in the same way as the substance itself.

13.2 Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 75

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations (EU)

Labelling for contents according to regulation (EC) No. 648/2004

< 5 % anionic surfactants
5 - 15 % non-ionic surfactants
< 5 % cationic surfactants
Contains the following substances: Benzyl Alcohol

National regulations

Other regulations, restrictions and prohibition regulations

Austria

Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).

Regulation on Flammable Liquids - VbF

VbF-Class : NU

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

01. Product identifier · 08. DNEL/DMEL · 08. PNEC · 09. Information on basic physical and chemical properties · 11. Toxicological information

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)
AOX: adsorbierbare organisch gebundene Halogene
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)
CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)
EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung
ECHA: Europäische Chemikalienagentur (European Chemicals Agency)
EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)
GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classifiaction and Labelling of Chemicals)
IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)
ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)
IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)
RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)
TRGS: Technische Regel für den Umgang mit Gefahrstoffen
VbF: Verordnung über brennbare Flüssigkeiten
VOC: flüchtige organische Verbindung (volatile organic compound)
VVEA: Verordnung über die Vermeidung und die Entsorgung von Abfällen
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank
ECHA: Classification And Labelling Inventory
ECHA: Pre-registered Substances
ECHA: Registered Substances
EC_Safety Data Sheet of Suppliers
ESIS: European Chemical Substances Information System
GDL: Gefahrstoffdatenbank der Länder
UBA Rigoletto: Wassergefährdende Stoffe
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council
|-> COMMISSION REGULATION (EU) 2020/878 of 18 June 2020
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
Evaluation :
Eye Irrit. 2 : Calculation method.

16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

16.6 Training advice

None

16.7 Additional information

None

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.