

Safety Data Sheet

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



Trade name : SC 100, Aerosol
Revision date : 12.12.2024
Print date : 12.12.2024

Version (Revision) : 4.2.0 (4.1.0)

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

1.1 Product identifier

SC 100, Aerosol

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 AG

Street : Aahusweg 16

Postal code/City : 6403 Küssnacht am Rigi

Telephone : 0041 41 878 1166

Telefax : 0041 41 878 1347

Information contact : accounting@bio-circle.ch

1.4 Emergency telephone number

+41 (0)442515151

Schweizerisches Toxikologisches Informationszentrum, 145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aerosol 1 ; H222 - Aerosols : Category 1 ; Extremely flammable aerosol.

Aerosol 1 ; H229 - Aerosols : Category 1 ; Pressurised container: May burst if heated.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.

Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Chronic 1 ; Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Flame (GHS02) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6

PROPAN-2-OL ; CAS No. : 67-63-0

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P211	Do not spray on an open flame or other ignition source.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352	IF ON SKIN: Wash with plenty of water/....
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

ORANGE, SWEET, EXT. ; REACH No. : 01-2119493353-35-XXXX ; EC No. : 232-433-8; CAS No. : 8028-48-6

Weight fraction : $\geq 25 - < 50 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

PROPAN-2-OL ; REACH No. : 01-2119457558-25-XXXX ; EC No. : 200-661-7; CAS No. : 67-63-0

Weight fraction : $\geq 25 - < 50 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

BUTANE ; REACH No. : 01-2119474691-32-XXXX ; EC No. : 203-448-7; CAS No. : 106-97-8

Weight fraction : $\geq 15 - < 25 \%$

Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

PROPANE ; REACH No. : 01-2119486944-21-XXXX ; EC No. : 200-827-9; CAS No. : 74-98-6

Weight fraction : $\geq 5 - < 15 \%$

Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

Further ingredients

Part of the orange peel extract: D-LIMONENE ; REACH No. : 01-2119529223-47-XXXX ; EC No. : 227-813-5; CAS No. : 5989-27-5

Weight fraction : $\geq 25 - < 50 \%$

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

Following inhalation

Consult a doctor immediately in the case of inhaling spray mist and show him packing or label. 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

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

Following ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Causes skin irritation. May produce an allergic reaction. May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry extinguishing powder ; Sand ; Powder

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products

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

5.3 Advice for firefighters

Cool down endangered containers with full water-jet. Use foam in high amounts. Contaminated tempering water is gathered separately and may not reach the sewage system.

Special protective equipment for firefighters

Use suitable breathing apparatus.

5.4 Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove all sources of ignition.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Other information

Replace leaky containers and dispose them as described in section 13.

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 only in the original container in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

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Avoid: Inhalation of vapours or spray/mists

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Ensure adequate ventilation of the storage area. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Store in a cool dry place.

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

(R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5

Limit value type (country of origin) : KZGW (CH)
Limit value : 14 ppm / 80 mg/m³
Remark : S; SSc
Version : 09.03.2021

Limit value type (country of origin) : MAK (CH)
Limit value : 7 ppm / 40 mg/m³
Remark : S; SSc
Version : 09.03.2021

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : BAT (CH)
Parameter : Acetone / Urine (U) / End of exposure or end of shift
Limit value : 25 mg/l / 0,4 mmol/L
Version : 02.01.2023

Limit value type (country of origin) : BAT (CH)
Parameter : Acetone / Whole blood (B) / End of exposure or end of shift
Limit value : 25 mg/l / 0,4 mmol/L
Version : 02.01.2023

Limit value type (country of origin) : KZGW (CH)
Limit value : 400 ppm / 1000 mg/m³
Remark : SSc; B
Version : 09.03.2021

Limit value type (country of origin) : MAK (CH)
Limit value : 200 ppm / 500 mg/m³
Remark : SSc; B
Version : 09.03.2021

BUTANE ; CAS No. : 106-97-8

Limit value type (country of origin) : KZGW (CH)
Limit value : 3200 ppm / 7600 mg/m³
Version : 09.03.2021

Limit value type (country of origin) : MAK (CH)
Limit value : 800 ppm / 1900 mg/m³
Version : 09.03.2021

PROPANE ; CAS No. : 74-98-6

Limit value type (country of origin) : KZGW (CH)
Limit value : 4000 ml/m³ / 7200 mg/m³
Version : 09.03.2021

Limit value type (country of origin) : MAK (CH)
Limit value : 1000 ml/m³ / 1800 mg/m³
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DNEL-/PNEC-values

DNEL/DMEL

ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6

Limit value type : DNEL Consumer (local)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 92,9 µg/cm²
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 7,78 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 4,44 mg/kg bw
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 4,44 mg/kg bw
Limit value type : DNEL worker (local)
Exposure route : Dermal
Exposure frequency : Short-term
Limit value : 185,8 µg/cm²
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 31,1 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 8,89 mg/kg

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 26 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 319 mg/kg bw/day
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 89 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 500 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 888 mg/kg bw/day

PNEC

ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6

Limit value type : PNEC (Aquatic, freshwater)
Limit value : 5,4 µg/l

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Limit value type :	PNEC (Aquatic, intermittent release)
Limit value :	5,77 µg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	0,54 µg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	1,3 mg/kg dw
Limit value type :	PNEC (Sediment, marine water)
Limit value :	0,13 mg/kg dw
Limit value type :	PNEC (Soil)
Limit value :	0,261 mg/kg dw
Limit value type :	PNEC (Sewage treatment plant)
Limit value :	2,1 mg/l
PROPAN-2-OL ; CAS No. : 67-63-0	
Limit value type :	PNEC (Aquatic, freshwater)
Limit value :	140,9 mg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Limit value :	140,9 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Limit value :	140,9 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Limit value :	552 mg/kg dw
Limit value type :	PNEC (Sediment, marine water)
Limit value :	552 mg/kg dw
Limit value type :	PNEC (Soil)
Limit value :	28 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Exposure route :	Water (Including sewage plant)
Limit value :	2251 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



Wear protective gloves in case of longer lasting skin contact.

Suitable gloves type : EN 374.

Suitable material : CR (polychloroprene, chloroprene rubber) / NBR (Nitrile rubber)

Breakthrough time : 120 min. / 480 min.

Thickness of the glove material : 0.8 mm. /

Remark : The exact break trough time has to be requested from the protective glove manufacturer and limits has to be ensured.

Respiratory protection

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Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus

Combination filtering device

General information

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Do not put any product-impregnated cleaning rags into your trouser pockets. Wash contaminated clothing prior to re-use.

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 : Aerosol

Colour : colourless

Odour

like: Isopropanol , fruity , sweetish

Safety characteristics

Melting point/freezing point :	(1013 hPa)	not applicable	
Initial boiling point and boiling range :	(1013 hPa)	not applicable	
Flash point :		not applicable	DIN EN ISO 13736
Auto-ignition temperature :	(D-LIMONENE)	237 °C	Literature value
Flammability :		flammable	
Lower explosion limit :	(D-LIMONENE)	0,7 Vol-%	Literature value
Lower explosion limit :	(PROPAN-2-OL)	2 Vol-%	Literature value
Lower explosion limit :	(BUTANE)	1,4 Vol-%	Literature value
Lower explosion limit :	(PROPANE)	1,7 Vol-%	Literature value
Upper explosion limit :	(D-LIMONENE)	6,1 Vol-%	Literature value
Upper explosion limit :	(PROPAN-2-OL)	12 Vol-%	Literature value
Upper explosion limit :	(BUTANE)	9,4 Vol-%	Literature value
Upper explosion limit :	(PROPANE)	10,8 Vol-%	Literature value
Vapour pressure :	(50 °C)	6500 hPa	
Density :	(20 °C)	No data available	
Water solubility :	(20 °C)	partially soluble	
pH :	(20 °C)	not applicable	
Relative vapour density :	(20 °C)	not determined	
Maximum VOC content (EC) :		100 Weight-%	
Maximum VOC content (Switzerland) :		100 Weight-%	
Taxable VOC content (Switzerland) :		100 Weight-%	
VOC-value :	approx.	845 g/l	

9.2 Other information

None

SECTION 10: Stability and reactivity

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10.1 Reactivity

Reactions with strong oxidants are expected. Peroxides can be produced.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

In use, may form flammable/explosive vapour-air mixture.

10.4 Conditions to avoid

Avoid high temperatures or direct sunlight. Danger of bursting container.

10.5 Incompatible materials

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

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 :	LD50 (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Method :	OECD 401
Parameter :	LD50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	LD50 (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg
Method :	OECD 402
Parameter :	LD50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (PROPANE ; CAS No. : 74-98-6)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	642 mg/l
Exposure time :	30 min
Parameter :	LC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 10000 ppm
Exposure time :	6 h
Method :	OECD 403
Parameter :	LC50 (BUTANE ; CAS No. : 106-97-8)
Exposure route :	Inhalation

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Species : Rat
Effective dose : 659 g/m³
Parameter : LC50 (BUTANE ; CAS No. : 106-97-8)
Exposure route : Inhalation
Species : Mouse
Effective dose : 680 g/m³

Corrosion

Skin corrosion/irritation

Parameter : Skin corrosion/irritation (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Result : Irritant

Assessment/classification

Causes skin irritation.

Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Rabbit
Result : Causes serious eye irritation
Method : OECD 405

No further relevant information available.

Result / Evaluation

Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation

Parameter : Skin sensitisation (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Species : Mouse
Result : Sensitising.
Method : OECD 429

Assessment/classification

May cause an allergic skin reaction.

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

STOT SE 3

Parameter : STOT SE 3 (PROPAN-2-OL ; CAS No. : 67-63-0)

Narcotic effects

Assessment/classification

Vapours may cause drowsiness and dizziness.

STOT-repeated exposure

No further relevant information available.

Aspiration hazard

The product is a spray aerosol.

11.2 Information on other hazards

Endocrine disrupting properties

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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

May be absorbed through the skin. Has degreasing effect on the skin.

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 (PROPANE ; CAS No. : 74-98-6)
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	27,98 mg/l
Exposure time :	96 h
Parameter :	LC50 (PROPANE ; CAS No. : 74-98-6)
Species :	Daphnia
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	14,22 mg/l
Exposure time :	48 h
Parameter :	EC50 (PROPANE ; CAS No. : 74-98-6)
Species :	Algae
Effective dose :	7,71 mg/l
Exposure time :	96 h
Parameter :	LC50 (BUTANE ; CAS No. : 106-97-8)
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	27,98 mg/l
Exposure time :	96 h
Parameter :	LC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	9640 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 (BUTANE ; CAS No. : 106-97-8)
Species :	Daphnia
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	14,22 mg/l
Exposure time :	48 h
Parameter :	LC50 (BUTANE ; CAS No. : 106-97-8)
Species :	Acute (short-term) algae toxicity
Effective dose :	8,57 mg/l
Exposure time :	96 h
Parameter :	NOELR (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Species :	Danio rerio (zebrafish)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	4 mg/l
Exposure time :	96 h
Method :	OECD 203

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Parameter : LL50 (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Species : Danio rerio (zebrafish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 5,65 mg/l
Exposure time : 96 h
Method : OECD 203

Acute (short-term) toxicity to crustacea

Parameter : EC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : 9714 mg/l
Exposure time : 24 h
Method : OECD 202

Parameter : NOELR (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : 0,48 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : LC50 (PROPAN-2-OL ; CAS No. : 67-63-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : > 10000 mg/l
Exposure time : 24 h
Method : OECD 202

Parameter : EL50 (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : 1,1 mg/l
Exposure time : 48 h
Method : OECD 202

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : NOELR (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Species : Desmodesmus subspicatus
Evaluation parameter : Inhibition of growth rate
Effective dose : 50 mg/l
Exposure time : 72 h
Method : OECD 201

Parameter : EL50 (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Species : Desmodesmus subspicatus
Evaluation parameter : Inhibition of growth rate
Effective dose : 150 mg/l
Exposure time : 72 h
Method : OECD 201

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (PROPANE ; CAS No. : 74-98-6)
Inoculum : Degree of elimination
Evaluation parameter : Anaerobic
Degradation rate : 100 %
Test duration : 385 h

Parameter : Biodegradation (BUTANE ; CAS No. : 106-97-8)
Inoculum : Biodegradation
Degradation rate : 100 %
Test duration : 386 h

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Parameter : Biodegradation (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : >= 60 %
Test duration : 28 D
Parameter : BOD (% of COD) (PROPAN-2-OL ; CAS No. : 67-63-0)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 53 %
Test duration : 5 D
Evaluation : Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Parameter : Log KOW (ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6)
Value : 2,78 - 4,88
Parameter : Log KOW (PROPAN-2-OL ; CAS No. : 67-63-0)
Value : 0,05
25 °C

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

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.

12.8 Additional ecotoxicological information

P273 - Avoid release to the environment.

SECTION 13: Disposal considerations

The waste codes are recommendations based on the schedule use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

13.1 Waste treatment methods

Ordinance on the avoidance and disposal of waste (ADWO) SR 814.600.

Before intended use

Waste code according to the lists for the movement of waste

16 05 04S (Gases in pressure containers (including halons) containing hazardous substances)

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number

UN 1950

14.2 UN proper shipping name

Land transport (ADR/RID)

AEROSOLS

Sea transport (IMDG)

AEROSOLS

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Air transport (ICAO-TI / IATA-DGR)
AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 2
Classification code : 5F
Hazard identification number (Kemler No.) : 23
Tunnel restriction code : D
Special Provisions : LQ 11 · E 0
Hazard label(s) :



Sea transport (IMDG)

Class(es) : 2.1
EmS-No. : F-D / S-U
Special Provisions : LQ 11 · E 0
Hazard label(s) :



Air transport (ICAO-TI / IATA-DGR)

Class(es) : 2.1
Special Provisions : E 0
Hazard label(s) :



14.4 Packing group

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

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, 40, 75

Other regulations (EU)

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

> 30 % aliphatic hydrocarbons

Contains the following substances: Limonene

National regulations

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AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).
CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

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).

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

None

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 Classification 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 :

Aerosol 1 : Content of flammable components , The study does not need to be conducted for flammable aerosols.

Skin Irrit. 2 : Calculation method.

Skin Sens. 1 : Calculation method.

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Eye Irrit. 2 : Calculation method.
STOT SE 3 : Calculation method.
Aquatic Acute 1 : Calculation method.
Aquatic Chronic 1 : Calculation method.

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

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
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.

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.