

# Safety Data Sheet

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



Trade name : SC 400  
Revision date : 06.12.2024  
Print date : 06.12.2024

Version (Revision) : 4.3.0 (4.2.1)

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

### 1.1 Product identifier

SC 400  
Unique Formula Identifier : YX20-D07Q-S003-AQWX

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

#### Relevant identified uses

PC 35 - Washing and cleaning products

#### Sectors of use [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
Industrial uses

### 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](mailto: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]

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.  
Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.  
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.  
Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.  
STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.  
Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.  
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) · Health hazard (GHS08) · Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

##### Signal word

Danger

##### Hazard components for labelling

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

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ETHYL LACTATE ; CAS No. : 97-64-3

#### Hazard statements

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H318 Causes serious eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H410 Very 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.  
P233 Keep container tightly closed.  
P310 Immediately call a POISON CENTER/doctor/....  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
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.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P370+P378 In case of fire: Use foam to extinguish.

#### 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 :  $\geq 50 - < 100$  %  
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

ETHYL LACTATE ; EC No. : 202-598-0; CAS No. : 97-64-3

Weight fraction :  $\geq 25 - < 50$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 STOT SE 3 ; H335

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

Weight fraction :  $\geq 5 - < 10$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

#### 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 :  $\geq 50 - < 100$  %

#### 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. Remove contaminated, saturated clothing immediately.

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## Following inhalation

In case of respiratory tract irritation, consult a physician. 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

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. Protect uninjured eye.

## 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.

## Self-protection of the first aider

First aider: Pay attention to self-protection!

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

Causes serious eye damage. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory 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 (CO<sub>2</sub>) Sand Nitrogen Extinguishing blanket

#### Unsuitable extinguishing media

Full water jet

### 5.2 Special hazards arising from the substance or mixture

H226 - Flammable liquid and vapour.

#### Hazardous combustion products

In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers. Apply foam in abundant quantities since some of it gets destroyed by the product. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional information

Remove product from area of fire. Burning produces heavy smoke. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation.

### 6.2 Environmental precautions

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

### 6.4 Reference to other sections

Safe handling: see section 7

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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. Provide adequate ventilation as well as local exhaust at critical locations.

### 7.2 Conditions for safe storage, including any incompatibilities

Ensure adequate ventilation of the storage area. Keep container tightly closed in a cool, well-ventilated place.

#### Hints on joint storage

##### Keep away from

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

### 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

Part of the orange peel extract - /Skin allergenic (fragrance) substance: d-Limonene ; CAS No. : 5989-27-5

Limit value type (country of origin) : KZGW ( CH )  
Limit value : 14 ppm / 80 mg/m<sup>3</sup>  
Remark : S; SSc  
Version : 09.03.2021

Limit value type (country of origin) : MAK ( CH )  
Limit value : 7 ppm / 40 mg/m<sup>3</sup>  
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/m<sup>3</sup>  
Remark : SSc; B  
Version : 09.03.2021

Limit value type (country of origin) : MAK ( CH )  
Limit value : 200 ppm / 500 mg/m<sup>3</sup>  
Remark : SSc; B  
Version : 09.03.2021

#### 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/cm<sup>2</sup>

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Trade name : SC 400  
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Version (Revision) : 4.3.0 (4.2.1)

Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 7,78 mg/m<sup>3</sup>  
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/cm<sup>2</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 31,1 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 8,89 mg/kg  
ETHYL LACTATE ; CAS No. : 97-64-3  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1,739 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 1 mg/kg bw/day  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 1 mg/kg bw/day  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 7,053 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 2 mg/kg bw/day  
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

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Exposure frequency : Long-term  
Limit value : 89 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 500 mg/m<sup>3</sup>  
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  
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

ETHYL LACTATE ; CAS No. : 97-64-3

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 0,284 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,0284 mg/l  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 1,071 mg/kg dw  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 0,1071 mg/kg dw  
Limit value type : PNEC (Soil)  
Limit value : 0,067 mg/kg dw  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 100 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

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## 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** : Butyl caoutchouc (butyl rubber)

**Breakthrough time** : 480 min.

**Thickness of the glove material** : 0.3 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



Respiratory protection necessary at: exceeding exposure limit values

#### Suitable respiratory protection apparatus

Combination filtering device

#### Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

### 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. Remove contaminated, saturated clothing immediately. Do not put any product-impregnated cleaning rags into your trouser pockets.

### 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** : clear

#### Odour

like: ester , fruity

#### Safety characteristics

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Melting point/freezing point :	( 1013 hPa )	<	-20 °C	
Initial boiling point and boiling range :	( 1013 hPa )	approx.	125 °C	
Flash point :			35 °C	DIN EN ISO 13736
Auto-ignition temperature :	( D-LIMONENE )		237 °C	Literature value
Auto-ignition temperature :	( PROPAN-2-OL )		425 °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
Upper explosion limit :	( D-LIMONENE )		6,1 Vol-%	Literature value
Upper explosion limit :	( PROPAN-2-OL )		12 Vol-%	Literature value
Vapour pressure :	( 20 °C )	<	15 hPa	Calculated
Density :	( 20 °C )	approx.	0,9 g/cm <sup>3</sup>	
Water solubility :	( 20 °C )		partially soluble	
pH :	( 20 °C )		not applicable	
pH :	( 20 °C / 5 Vol-% )	approx.	7	in aqueous solution
Cinematic viscosity :	( 20 °C )	<	35 mm <sup>2</sup> /s	
Relative vapour density :	( 20 °C )		not determined	
Maximum VOC content (EC) :			100 Weight-%	
Maximum VOC content (Switzerland) :			100 Weight-%	
Taxable VOC content (Switzerland) :			65 Weight-%	

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Violent reaction with: Oxidising agent, strong. Formation of: Peroxides.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

Take precautionary measures against static discharges.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.  
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 ( ETHYL LACTATE ; CAS No. : 97-64-3 )
Exposure route :	Oral
Species :	Rabbit
Effective dose :	5600 mg/kg
Parameter :	LD50 ( ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg



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Version (Revision) : 4.3.0 (4.2.1)

Method : OECD 401  
Parameter : LD50 ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 8200 mg/kg  
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 ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/kg  
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 ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 56 mg/l  
Exposure time : 4 h  
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

## 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 ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Species : In vitro eye test  
Result : Causes serious eye damage  
Method : OECD 437  
Parameter : Serious eye damage/eye irritation ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Rabbit  
Result : Causes serious eye irritation  
Method : OECD 405

### Assessment/classification

Causes serious eye damage.

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Trade name : SC 400  
Revision date : 06.12.2024  
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Version (Revision) : 4.3.0 (4.2.1)

## Irritation to respiratory tract

Parameter : Irritation to respiratory tract ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Result : Irritant

## 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

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

## STOT-repeated exposure

No further relevant information available.

## Aspiration hazard

May be fatal if swallowed and enters airways.

## 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

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 ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Species : Danio rerio (zebrafish)  
Evaluation parameter : Acute (short-term) fish toxicity

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Effective dose : 320 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 : 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  
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 : EC50 ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : 683 mg/l  
Exposure time : 48 h  
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 : EC50 ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Species : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : 417 mg/l  
Exposure time : 96 h  
Parameter : NOELR ( ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6 )

# Safety Data Sheet

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



Trade name : SC 400  
Revision date : 06.12.2024  
Print date : 06.12.2024

Version (Revision) : 4.3.0 (4.2.1)

Species : Desmodemus 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 : Desmodemus subspicatus  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 150 mg/l  
Exposure time : 72 h  
Method : OECD 201

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

Parameter : NOEC ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Species : Chronic (long-term) toxicity to aquatic algae and cyanobacteria  
Effective dose : 1,71 mg/l  
Exposure time : 96 h

## 12.2 Persistence and degradability

### Biodegradation

Parameter : Biodegradation ( ORANGE, SWEET, EXT. ; CAS No. : 8028-48-6 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate :  $\geq 60\%$   
Test duration : 28 D  
Parameter : BOD (% of COD) ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 85 %  
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 ( ETHYL LACTATE ; CAS No. : 97-64-3 )  
Value : 0,7  
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

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



Trade name : SC 400  
Revision date : 06.12.2024  
Print date : 06.12.2024

Version (Revision) : 4.3.0 (4.2.1)

P273 - Avoid release to the environment.

**SECTION 13: Disposal considerations**

**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**

20 01 29S (Detergents containing hazardous substances) 20 01 29S (Detergents containing hazardous substances)

07 06 04S (Other organic solvents, washing liquids and mother liquors)

07 06 04S (Other organic solvents, washing liquids and mother liquors)

**Other disposal recommendations**

Dispose of waste according to applicable legislation. Dispose of contents/ container to an approved waste disposal plant. 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 VVEA, specific to the industry and process.

**SECTION 14: Transport information**

**14.1 UN number**

UN 1993

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

FLAMMABLE LIQUID, N.O.S. ( ORANGE, SWEET, EXT. · ETHYL LACTATE · ISOPROPANOL )

**Sea transport (IMDG)**

FLAMMABLE LIQUID, N.O.S. ( ORANGE, SWEET, EXT. · ETHYL LACTATE · ISOPROPANOL )

**Air transport (ICAO-TI / IATA-DGR)**

FLAMMABLE LIQUID, N.O.S. ( ORANGE, SWEET, EXT. · ETHYL LACTATE · ISOPROPANOL )

**14.3 Transport hazard class(es)**

**Land transport (ADR/RID)**

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 30  
Tunnel restriction code : D/E  
Special Provisions : LQ 5 I · E 1  
Hazard label(s) :



3 / N

**Sea transport (IMDG)**

Class(es) : 3  
EmS-No. : F-E / S-E  
Special Provisions : LQ 5 I · E 1  
Hazard label(s) :



3 / N

**Air transport (ICAO-TI / IATA-DGR)**

# Safety Data Sheet

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



Trade name : SC 400  
Revision date : 06.12.2024  
Print date : 06.12.2024

Version (Revision) : 4.3.0 (4.2.1)

Class(es) : 3  
Special Provisions : E 1  
Hazard label(s) :



3

#### 14.4 Packing group

III

#### 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

#### 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, 40, 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

> 30 % aliphatic hydrocarbons

Contains the following substances: Limonene

##### National regulations

##### Other regulations, restrictions and prohibition regulations

##### Switzerland

Swiss Maternity Protection Ordinance (SR 822.111.52): Pregnant women and nursing mothers are only allowed to get in contact with or be exposed to this preparation in the course of their work when it is established on the basis of a risk assessment by a specialist, that in context with the activities and the protection measures applied, exposure does no harm to mother and child.

Swiss Youth Protection Regulation (ArGV 5; SR 822.115): Young persons up to the age of 18 are not allowed to get in contact with or be exposed to this preparation in the course of their work unless the Federal Office for Professional Education and Technology (BBT) or the State Secretariat for Economic Affairs (SECO) has granted an exception.

### 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

08. Occupational exposure limit values · 08. DNEL/DMEL

### 16.2 Abbreviations and acronyms

# Safety Data Sheet

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



Trade name : SC 400  
Revision date : 06.12.2024  
Print date : 06.12.2024

Version (Revision) : 4.3.0 (4.2.1)

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 :  
Flam. Liq. 3 : Flash point (°C) EN ISO 13736  
Skin Irrit. 2 : Calculation method.  
Eye Dam. 1 : Calculation method.  
Skin Sens. 1 : Calculation method.  
STOT SE 3 : Calculation method.  
Asp. Tox. 1 : Calculation method.  
Aquatic Acute 1 : Calculation method.  
Aquatic Chronic 1 : Calculation method.

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

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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

# Safety Data Sheet

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



Trade name : SC 400  
Revision date : 06.12.2024  
Print date : 06.12.2024

Version (Revision) : 4.3.0 (4.2.1)

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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

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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.

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