

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : SOLASTEMIS
Product code : 5949
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Industrial use
Use of the substance/mixture : Cosmetic ingredient

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

GATTEFOSSE SAS
36 chemin de Genas CS 70070
69804 Saint-Priest Cedex
France
T +33 472 22 98 00 - F +33 478 90 45 67
regulatory@gattefosse.com - www.gattefosse.com

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|--|--|--------------------------------------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | Only for healthcare professionals |
| United Kingdom | National Poisons Information Service (Cardiff Centre) University Hospital Llandough | Penlan Road CF64 2XX Llandough | 0344 892 0111 | Only for healthcare professionals |
| United Kingdom | National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh | Little France Crescent EH16 4SA Edinburgh | 0344 892 0111 | Only for healthcare professionals |
| United Kingdom | National Poisons Information Service (Belfast Centre) Royal Victoria Hospital | Grosvenor Road BT12 6BA Belfast | 0344 892 0111 | Only for healthcare professionals |

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

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2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|----------------------------|---|
| Sodium benzoate (532-32-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------------------|---|---------|---|
| D-fructose | CAS-No.: 57-48-7 EC-No.: 200-333-3 REACH-no: Exempted from REACH registration (Annex IV). | 25 – 50 | Not classified |
| Water | CAS-No.: 7732-18-5 EC-No.: 231-791-2 REACH-no: Exempted from REACH registration (Annex IV) | 10 – 25 | Not classified |
| Glycerol | CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH-no: Exempted from REACH registration (Annex V.9) | 10 – 25 | Not classified |
| Sechium edule fruit extract | CAS-No.: 223748-59-2 REACH-no: Exempted from registration (volume < 1 tpa). | 5 – 10 | Not classified |
| Sodium benzoate | CAS-No.: 532-32-1 EC-No.: 208-534-8 REACH-no: 01-2119460683-35 | 0.1 – 1 | Eye Irrit. 2, H319 |
| citric acid | CAS-No.: 77-92-9 EC-No.: 201-069-1 EC Index-No.: 607-750-00-3 REACH-no: 01-2119457026-42 | 0.1 – 1 | Eye Irrit. 2, H319 STOT SE 3, H335 |

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--|

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|----------------------------|
| Emergency procedures | : Ventilate spillage area. |
|----------------------|----------------------------|

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-------------------------------------|
| Physical state | : Liquid |
| Colour | : amber. orange-like. |
| Appearance | : clear. |
| Odour | : medium. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not applicable |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : Not available |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not available |
| pH solution | : 4 – 6 diluted in water: 1/1 w/v |
| Viscosity, kinematic | : Not available |
| Solubility | : Material highly soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50 °C | : Not available |
| Density | : Not available |
| Relative density | : 1.305 – 1.335 (D20/4) |
| Relative vapour density at 20 °C | : Not available |
| Particle characteristics | : Not applicable |

D-fructose

| | |
|-------------|-----------|
| Flash point | undefined |
|-------------|-----------|

Glycerol

| | |
|-------------|---------------------|
| Flash point | 199 °C Source: ECHA |
|-------------|---------------------|

Sodium benzoate

| | |
|-------------|--------------------------|
| Flash point | No information available |
|-------------|--------------------------|

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Data for mixture are not available)

Acute toxicity (dermal) : Not classified (Data for mixture are not available)

Acute toxicity (inhalation) : Not classified (Data for mixture are not available)

citric acid (77-92-9)

LD50 oral 5400 mg/kg bodyweight ECHA registration dossier;mouse;(OECD 401 method)

LD50 dermal rat > 2000 mg/kg bodyweight ECHA registration dossier;rat;(OECD 402 method)

Glycerol (56-81-5)

LD50 oral rat 27200 mg/kg (OECD 401 method); Source: European Chemicals Agency, <http://echa.europa.eu/>

LD50 dermal rabbit > 10000 mg/kg

LC50 Inhalation - Rat (Vapours) > 2.75 mg/l (OECD 403 method); Source: European Chemicals Agency, <http://echa.europa.eu/>

Sodium benzoate (532-32-1)

LD50 oral rat 3450 mg/kg bodyweight Animal: rat, 95% CL: 3150 - 3740

LD50 dermal rabbit > 2000 mg/kg bodyweight Animal: rabbit

LC50 Inhalation - Rat > 12.2 mg/l air Animal: rat

Skin corrosion/irritation : No skin irritation (Based on available data, the classification criteria are not met)

Additional information : Data: Gattefossé

In vitro
(OECD 439 method)

Serious eye damage/irritation : Not irritating to eyes (Based on available data, the classification criteria are not met)

Additional information : Data: Gattefossé

In vitro
(OECD 437 method)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Additional information : Data: Gattefossé

(OECD 442E method)

Germ cell mutagenicity : Mutagenicity : Ames test : negative (Based on available data, the classification criteria are not met)

Additional information : Data: Gattefossé

(OECD 471 method)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Data: Gattefossé

Micronucleus test
(OECD 487 method)
Negative

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Reproductive toxicity : Not classified (Data for mixture are not available)
STOT-single exposure : Not classified (Data for mixture are not available)

citric acid (77-92-9)

| | |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

STOT-repeated exposure : Not classified (Data for mixture are not available)

Sodium benzoate (532-32-1)

| | |
|----------------------------|--|
| NOAEL (oral, rat, 90 days) | 1000 mg/kg bodyweight Source: European Chemicals Agency, http://echa.europa.eu/ |
|----------------------------|--|

| | |
|-------------------------------------|---|
| NOAEL (dermal, rat/rabbit, 90 days) | > 2500 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity -21/28 Days) |
|-------------------------------------|---|

| | |
|--|--|
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | ≤ 0.025 mg/l air (OECD 412 method); Source: European Chemicals Agency, http://echa.europa.eu/ |
|--|--|

Aspiration hazard : Not classified (Data for mixture are not available)

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No ecotoxicological data about this product are known.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Data for mixture are not available)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Data for mixture are not available)

Glycerol (56-81-5)

| | |
|-----------------|---|
| LC50 - Fish [1] | 54000 mg/l Test organisms (species): Oncorhynchus mykiss; Source : ECHA |
|-----------------|---|

Sodium benzoate (532-32-1)

| | |
|-----------------|--|
| LC50 - Fish [1] | 484 mg/l (OECD 203 method)>Pimephales promelas; Source: European Chemicals Agency, http://echa.europa.eu/ |
|-----------------|--|

| | |
|----------------------|--|
| EC50 - Crustacea [1] | > 100 mg/l (OECD 202 method); Daphnia magna (Water flea); Source: European Chemicals Agency, http://echa.europa.eu/ |
|----------------------|--|

| | |
|----------------------|--|
| EC50 72h - Algae [1] | > 30.5 mg/l (OECD 201 method); Pseudomonas; Source: European Chemicals Agency, http://echa.europa.eu/ |
|----------------------|--|

| | |
|-------------|--|
| ErC50 algae | > 100 mg/l Pseudokirchneriella subcapitata |
|-------------|--|

| | |
|-------------------|--|
| NOEC chronic fish | 10 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '144 h' |
|-------------------|--|

12.2. Persistence and degradability

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| | |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Data for mixture are not available. |
|-------------------------------|-------------------------------------|

Water (7732-18-5)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

citric acid (77-92-9)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

| | |
|----------------|-----------------|
| Biodegradation | 97 % OECD 301 B |
|----------------|-----------------|

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| D-fructose (57-48-7) | |
|-----------------------------------|--|
| Persistence and degradability | No data available. |
| Glycerol (56-81-5) | |
| Persistence and degradability | Readily biodegradable. |
| Biochemical oxygen demand (BOD) | 0.87 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.16 g O ₂ /g substance |
| ThOD | 1.217 g O ₂ /g substance |
| BOD (% of ThOD) | 71 % ThOD |
| Biodegradation | 82 % (OECD 301D method); 28d |
| Source | European Chemicals Agency, http://echa.europa.eu/ |
| Sodium benzoate (532-32-1) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | ≈ 90 % (OECD 301B method) |

12.3. Bioaccumulative potential

| SOLASTEMIS | |
|---|--|
| Bioaccumulative potential | Accumulation in organisms is not to be expected. Data for mixture are not available. |
| Water (7732-18-5) | |
| Bioaccumulative potential | Accumulation in organisms is not to be expected. |
| citric acid (77-92-9) | |
| Partition coefficient n-octanol/water (Log Pow) | -1.7 Source: ICSC |
| D-fructose (57-48-7) | |
| Bioaccumulative potential | No data available. |
| Glycerol (56-81-5) | |
| Partition coefficient n-octanol/water (Log Pow) | -1.75 Source: ECHA |
| Bioaccumulative potential | Accumulation in organisms is not to be expected. |
| Sodium benzoate (532-32-1) | |
| Partition coefficient n-octanol/water (Log Pow) | -2.27 (calculated value) |
| Bioaccumulative potential | Accumulation in organisms is not to be expected. |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| 14.1. UN number or ID number | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

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Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|--------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |

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Abbreviations and acronyms:

| | |
|---------|--|
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

Full text of H- and EUH-statements:

| | |
|--------------|--|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.