

# SAFETY DATA SHEET (MSDS)

Bitter Orange Hydrolate | EcoFlores

Prepared in accordance with Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) – mixture not classified as hazardous.

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: Bitter Orange Hydrolate

INCI name: Citrus Aurantium Amara Flower Water

Form: preserved plant distillate (hydrolate).

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

Identified uses:

- raw material for cosmetic products (toners, mists, masks, gels, creams, serums, etc.),
- aqueous phase in cosmetic formulations,
- ingredient for skin and hair care products.

Uses advised against:

- not for oral consumption,
- not for pharmaceutical/medical use without additional assessment,
- not for use in baby products without proper formula verification.

### 1.3 Details of the supplier of the safety data sheet

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### 1.4 Emergency telephone number

- General emergency number: 112
- Toxicological information: nearest poison centre / emergency department according to local regulations.

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 (CLP):

- the mixture is not classified as hazardous.

### 2.2 Label elements

Pictograms: none

Signal word: none

H statements: not applicable

P statements: not applicable

## 2.3 Other hazards

- May cause mild, temporary irritation to skin or eyes in particularly sensitive individuals.
- Product may contain naturally occurring trace aromatic components of plant origin.
- Does not meet PBT or vPvB criteria according to Annex XIII of REACH (based on available data for ingredients).

## 3. Composition/information on ingredients

Aqueous mixture.

### Ingredients:

- Citrus Aurantium Amara Flower Water: 97.3–97.6%
- Potassium sorbate: 0.20%
- Sodium benzoate: 1.00%
- Citric acid: 1.00%

No additional undisclosed ingredients requiring classification.

## 4. First aid measures

### 4.1 Description of first aid measures

Inhalation: not applicable under normal use (aqueous product, practically no volatile vapours).

### Skin contact:

- remove contaminated clothing,
- rinse skin with water, if necessary with a mild cleanser,
- if irritation persists, seek medical advice.

### Eye contact:

- immediately rinse eyes thoroughly with water for at least 10–15 minutes with eyelids open,
- remove contact lenses if present and easy to do,
- if irritation persists, seek ophthalmological advice.

### Ingestion:

- rinse mouth with water,
- give a small amount of water to drink,
- DO NOT induce vomiting,
- if unwell, contact a physician and show this safety data sheet.

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

- mild skin and eye irritation,
- sensitive individuals may experience slight stinging or redness.

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

- Symptomatic treatment. If in doubt or symptoms persist, consult a physician.

## 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: water spray, foam, dry powder, carbon dioxide (CO<sub>2</sub>) –

choose according to surrounding combustible materials.

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

- the product itself is non-flammable (aqueous solution),
- in the event of surrounding fire, decomposition products of organic trace components may form: carbon oxides (CO, CO<sub>2</sub>).

#### 5.3 Advice for firefighters

- use standard personal protective equipment,
- in case of major fire use self-contained breathing apparatus.

### 6. Accidental release measures

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

- observe basic hygiene rules,
- in case of large spills use protective gloves.

#### 6.2 Environmental precautions

- prevent large quantities from entering drains and watercourses without dilution,
- small quantities are biodegradable and do not pose a significant environmental hazard.

#### 6.3 Methods and material for containment and cleaning up

- absorb spilled product with inert absorbent material (sand, diatomaceous earth, inert absorbent),
- dispose of collected material in accordance with local regulations,
- rinse residues with water.

### 7. Handling and storage

#### 7.1 Precautions for safe handling

- avoid microbiological contamination (use clean tools, avoid blowing air into the container),
- avoid prolonged eye contact,
- use according to intended purpose in cosmetic formulations.

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

- store in tightly closed containers,
- recommended storage temperature: 10–20°C,
- protect from sunlight and heat sources,
- after opening, use within a reasonable time or store in a cool place.

#### 7.3 Specific end use(s)

- raw material for cosmetic production; detailed recommendations according to formulation documentation and cosmetic manufacturer guidance.

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

- No established occupational exposure limits for ingredients in this form of mixture.

#### 8.2 Exposure controls

Respiratory protection: not required under normal use.

Hand protection: usually not required for small-scale handling; for prolonged contact or production-line work, disposable protective gloves (e.g. nitrile) are recommended.

Eye protection: not required under normal cosmetic raw material use; in production conditions (large quantities, splash risk), protective goggles are recommended.

Skin protection: work clothing protecting against soiling.

Occupational hygiene: observe general hygiene rules: do not eat, drink or smoke when handling the product; wash hands after work.

## 9. Physical and chemical properties

- Form: liquid
- Appearance: clear, transparent or slightly opalescent liquid
- Odour: fresh, aromatic, citrus-floral
- pH: 4.2 – 6.0
- Boiling point: approx. 100°C
- Flash point: not applicable (aqueous product)
- Relative density (20°C): 0.98 – 1.01 g/ml
- Solubility: completely miscible with water
- Explosive/oxidising properties: product is not explosive and does not exhibit oxidising properties

## 10. Stability and reactivity

### 10.1 Reactivity / 10.2 Chemical stability

- product is stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

- no hazardous reactions are known with typical packaging materials.

### 10.4 Conditions to avoid

- excessive heating,
- prolonged exposure to sunlight,
- microbiological contamination (contact with dirty tools or packaging).

### 10.5 Incompatible materials

- strong oxidising agents – avoid intentional mixing.

### 10.6 Hazardous decomposition products

- in fire: carbon oxides (CO, CO<sub>2</sub>).

## 11. Toxicological information

### 11.1 Information on toxicological effects

Aqueous mixture based on plant hydrolate, preserved – not classified as hazardous.

Possible effects:

- skin irritation: unlikely, possible in sensitive individuals,
- eye irritation: possible in direct contact, usually mild and temporary,
- sensitisation: no data indicating sensitising effects of the mixture; particularly sensitive individuals should perform a patch test.

No acute toxicity data are available for the mixture; assessment is based on ingredient data and product character.

## 12. Ecological information

- Product is biodegradable, water-based and contains natural trace plant components,
- under normal use it does not pose a significant hazard to the environment,
- large quantities should not be discharged undiluted into watercourses.

### 13. Disposal considerations

- Small quantities may be diluted with plenty of water and discharged to the sewer, in accordance with local regulations,
- larger quantities and used absorbents should be handed over to an authorised waste recipient,
- empty packaging may be recycled or disposed of in accordance with local regulations.

### 14. Transport information

Product is not classified as dangerous for transport (ADR / RID / IMDG / IATA).

- UN number: not applicable
- Packing group: not applicable
- Hazard class: not applicable

### 15. Regulatory information

- product intended as a cosmetic raw material,
- this safety data sheet has been prepared based on:
  - Regulation (EC) No 1907/2006 (REACH),
  - Regulation (EC) No 1272/2008 (CLP),
  - Regulation (EC) No 1223/2009 on cosmetic products (for intended use).

This safety data sheet is informative and does not replace cosmetic product documentation.

### 16. Other information

- This sheet has been prepared on the basis of supplier data and literature information.
- The user is responsible for using the product in accordance with applicable regulations and for carrying out a risk assessment under the actual conditions of use.