



**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**AHA Fruit Acids**

**1. Identification of the substance/mixture and company**

Trade name:	AHA Fruit Acids Based on a standardized extraction of five plant species: Bilberry, Sugar Cane, Orange, Lemon, and Sugar Maple. These botanical extracts deliver five natural AHAs to the skin: Lactic Acid (from Bilberry), Glycolic Acid (from Sugar Cane), Citric Acid (from Orange and Lemon), and Malic and Tartaric Acids (from Sugar Maple)
INCI	Water, Vaccinium myrtillus fruit extract, Saccharum officinarum (Sugar cane) extract, Citrus aurantium dulcis (Orange) fruit extract, Citrus limon (Lemon) fruit extract, Acer saccharum (Sugar maple) extract
CAS No. :	7732-18-5 & 84082-34-8 & 91722-22-4 & 8028-48-6 (or) 84012-28-2 & 84929-31-7 & 91770-22-8
EINESCS No. :	231-791-2 & 281-983-5 & 294-424-5 & 232-433-8 & 284-515-8 & 294-807-7
REACH registration No. :	-
Utilization:	Raw material for cosmetic or professional use
Supplier company identification:	<b>Elemental SRL</b> , Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.eu
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

**2. Hazards Identification**

**2.1. Classification of the substance/mixture**

Classification:

**GHS / CLP**

Basis for Classification: Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011).

**USA**

OSHA Regulatory Status: This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Europe**

Basis for Classification: - According to present data no classification and labeling is required according to Regulation (EC) No. 1272/2008 (amending and repealing Directives 67/548/EEC and 1999/45/EC).

This product is not classified as hazardous to health or environment according to the CLP regulation.

Nature of special risks attributed:

None in particular

**2.2. Labeling Elements**

Provided symbols / Pictograph: No hazard symbol expected

Hazard Statements/Signal Words: Not applicable



**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**AHA Fruit Acids**

**Precautionary Statements:**

P233: Keep container tightly closed  
P281: Use personal protective equipment as required  
P402: Store in a dry place  
P404: Store in a closed container  
P410: Protect from sunlight  
P411: Store at temperatures not exceeding 25°C

**2.3. Other hazards which do not result in classification:**

No particular fire or explosion hazard.  
By mechanical effect: No particular hazards  
By hydrosopic effect: No particular hazards

**US NFPA 704 (National Fire Protection Association) Hazard Rating System:**

Health hazard: Rating 0; Normal Material  
Flammability: Rating 0, Will Not Burn  
Reactivity: Rating 0, Stable  
Other Hazard Information: None

**Results of PBT and vPvB assessment:**

-PBT: Not applicable -vPvB: Not applicable

**3. Declaration of ingredients**

**3.1. Composition/information on ingredients**

Common Chemical Name: Water & Vaccinium Myrtillus Fruit Extract & Saccharum Officinarum (Sugar Cane) Extract & Citrus Aurantium Dulcis (Orange) Fruit Extract & Citrus Limon (Lemon) Fruit Extract & Acer Saccharum (Sugar Maple) Extract

Chemical Family: Extract

**Description:** Mixture: consisting of the following components. This section describes all components of the mixture

Substance	CAS Numbers	EC Numbers	Percentage	Reach No.
Water	7732-18-5	231-791-2	50.00%	Exempt – Annex IV
Vaccinium Myrtillus Fruit Extract	84082-34-8	281-983-5	28.50%	Exempt – Annex V
Saccharum Officinarum (Sugar Cane) Extract	91722-22-4	294-424-5	12.00%	Exempt – Annex V
Citrus Aurantium Dulcis (Orange) Fruit Extract	8028-48-6 (or) 84012-28-2	232-433-8	4.00%	Exempt – Annex V
Citrus Limon (Lemon) Fruit Extract	84929-31-7	284-515-8	4.00%	Exempt – Annex V
Acer Saccharum (Sugar Maple) Extract	91770-22-8	294-807-7	1.50%	Exempt – Annex V



**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**AHA Fruit Acids**

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Formula: Not applicable

#### 4. First aid measures

##### 4.1. Description of first aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention.

**Direct contact with skin:** Rinse immediately with soap and water. Get medical advice if irritation develops.

**Direct contact with eyes:** Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.

**Inhalation:** Move to fresh air from exposure area. Get medical attention for any breathing difficulty.

**Ingestion:** Consult with a physician.

**Protection of first-aiders:** No special protection required.

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

Symptoms and effects: No data available

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

Indication: No data available

#### 5. Fire fighting measures

##### 5.1. Extinguishing media

Extinguishing Media: Water, dry chemicals, foam and carbon dioxide.

##### 5.2. Special hazards arising from the substance/mixture

Unusual Fire and Explosion Hazards: None known

##### 5.3. Advice for firefighters

Special Fire Fighting Procedures: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low area.

Protection for fire-fighters: Boots, gloves, goggles.

#### 6. Accidental release measures

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

For non-emergency personnel: Avoid contact with eyes.

For emergency responders: Avoid contact with eyes.

##### Personal Protective Equipment:

Protective goggles



**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**AHA Fruit Acids**

**6.2. Environmental precautions**

Environmental Protection Measures: Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system.

**6.3. Methods and material for containment and cleaning up**

Recovery: Pick up free liquid for recycling or disposal. Residual liquid can be absorbed on an inert material.  
Cleaning/Decontamination: Wash non-recoverable remainder with water.

**6.4. Reference to other sections**

References: Refer to paragraphs 8 and 13 for more information.

**7. Handling and storage**

**7.1. Precaution for safe handling**

Technical measures: Labeling: Keep out of the reach of children.  
Measures: For industrial use, only as directed.  
Safe handling advice: Wash hands after use. Avoid storage near feed or food stuff.

**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures: Keep container closed.  
Recommended Storage Conditions: Store in a cool, dry place. This material must be stored at room temperature (23°C 25°C). It should not be exposed to excessive heat or cold. Do not freeze.  
Incompatible products: Avoid contact with strong oxidizers.  
Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity).  
Packaging: Product may be packaged in normal commercial packaging.  
Packaging materials: Recommended - Polypropylene & High Density Polyethylene.

**7.3. Specific and use(s)**

Use(s): Cosmetic use.

**8. Exposure controls / personal protection**

Precautionary statements: Ensure adequate ventilation.

**8.1. Control parameters**

Occupational exposure Limits:

France:	Not Determined
ACGIH:	Not Determined
Korea:	Not Determined
UK:	Not Determined
Surveillance procedures:	Not Determined
Engineering measures:	Not Determined



**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**AHA Fruit Acids**

**8.2. Exposure controls/ Personal Protective Equipment**

Respiratory protection:	Local exhaust.
Hand protection	Protective gloves made of rubber or neoprene.
Eye protection:	Safety glasses.
Collective emergency equipment:	Eye fountain.
Skin and Body Protection:	Suitable protective clothing.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance:** Clear, colorless to pale yellow liquid

**Odor:** Characteristic

**pH (as-is @ 25°C):** 4.0 – 5.0

**NVM (1g-1hr-105°C):** 50.0% Minimum

**Specific Gravity (as-is @ 25°C):** 1.1690 – 1.3690

**Vapor density:** Not applicable

**Boiling Point:** 100°C

**Freezing Point:** 0°C

**Melting point:** Not applicable

**Flash point:** > 200°F

**Oxidizing properties:** Non oxidizing material according to EC criteria.

**Solubility:**

In water: Soluble

In organic solvents: Not determined

Log P: Not determined

<b>Acid Content:</b>	
<b>Lactic Acid:</b>	28.0 – 32.0%
<b>Glycolic Acid:</b>	12.0 – 17.0%
<b>Citric Acid:</b>	2.0 – 6.0%
<b>Malic Acid:</b>	1.0% Maximum
<b>Tartaric Acid:</b>	1.0% Maximum
<b>Arbutin:</b>	< 10 ppm

<b>Microbial count</b>
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**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**AHA Fruit Acids**

<b>Microbial Content:</b>	< 100 CFU/g; No pathogens
<b>Yeast &amp; Mold:</b>	< 100 CFU/g
<b>Gram Negative Bacteria:</b>	0 CFU/g

<b>Heavy Metals: &lt; 20 ppm</b>	
<b>Arsenic:</b>	< 2 ppm
<b>Lead:</b>	< 1 ppm
<b>Cadmium:</b>	< 1 ppm

**9.2. Other information**

Information: N/A

**10. Stability and reactivity**

**10.1. Reactivity**

Reactivity: None known

**10.2. Chemical stability**

Stability: Stable under ordinary conditions of use and storage up to one year then re-test to full product specifications to extend shelf life.

**10.3. Possibility of hazardous reactions**

Hazardous reaction: None known

**10.4. Conditions to avoid**

Conditions to avoid: No dangerous reactions known under use of normal conditions. Avoid extreme heat.

**10.5. Incompatible materials**

Incompatibility: No dangerous reaction known with common products.

**10.6. Hazardous decomposition products**

Hazardous decomposition: None known

**11. Toxicological information**

**11.1. Information on toxicological effects**

Ingestion: Not Determined

Dermal: Non-Irritant (Dermal Irritation Model)

Ocular: Non-Irritant (Ocular Irritation Model)

Inhalation: Not Determined

Acute toxicity data: EC50 (Acute Daphnia): 649.57 mg/L - Not harmful to aquatic organisms

Sensitization: Non-Primary Sensitizer; Will not cause allergic contact dermatitis (In Chemico Skin Sensitization Direct Peptide Reactivity Assay & In Vitro Skin Sensitization ARE-Nrf2 Luciferase Test Method)



**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**AHA Fruit Acids**

Repeated dose toxicity: No known effects  
Subacute to chronic toxicity: Not Determined  
Mutagenicity: Non-Mutagenic (OECD471/ISO10993.Part 3 – Genotoxicity: Bacterial Reverse Mutation Test)  
Additional Toxicological Information: This product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

Specific effects:  
Carcinogenicity: No known effects  
Mutagenicity: No known effects  
Reproductive toxicity: No known effects  
Neuro-toxicity: No known effects

For more information: Does not present any particular risk on handling under normal conditions of good occupational hygiene practice.

This product has not been tested for the following:  
-Primary cutaneous and corrosive irritation  
-Acute oral toxicity  
-Mutagenicity/genotoxicity

## 12. Ecological information

### 12.1. Toxicity

Toxicity: Not determined

### 12.2. Persistence and degradability

Persistence and degradability: Readily Biodegradable (87.55% biodegradation after 28 days of testing)

### 12.3. Bioaccumulative potential

Bioaccumulative potential: Not determined

### 12.4. Mobility

Precipitation:

Expected behavior of the product: Ultimate destination of the product: Soil & sediment.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: Not determined

### 12.6. Other adverse effects

Other adverse effects: None known

## 13. Disposal considerations

### 13.1. Waste treatment methods

Residues from product

Prohibition: Do not allow the product to be released into the Environment.



**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**AHA Fruit Acids**

Destruction/Disposal: Dispose of in accordance with relevant local regulations

Contaminated packaging

Decontamination/cleaning: Cleaning is not required prior to disposal.

Destruction/Disposal: Note: Take all necessary precautions when disposing of this product according to local regulations.

#### 14. Transport information

##### 14.1. UN number

Number: None

##### 14.2. UN proper shipping name

Shipping name: None

##### 14.3. Transport hazard class(es)

Hazard class: Not classified as dangerous for transport.

Land (rail/road): Material is not restrictive for land transport and is not regulated by ADR/RID

Sea: Material is not restrictive for sea transport and is not regulated by IMO/IMDG

Air: Material is not restrictive for land transport and is not regulated by ICA/IATA

Marine Pollutant: No

Transport/Additional Information: Not regulated for US DOT Transport in non-bulk containers.

This material is not dangerous or hazardous.

##### 14.4. Picking group

Picking group: None

##### 14.5. Environmental hazards

Environmental hazards: None

##### 14.6. Special precautions for user

Precautions: None known

##### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: N/A

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

#### 15. Regulatory information

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

###### Labeling:

EC regulations: This product does not need to be labeled in accordance with EC Directives or respective national laws

###### Further regulations





**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**AHA Fruit Acids**

United Kingdom: Handle in accordance with relevant British regulation: control of substance Hazardous to Health Regulations Environmental  
Hygiene Guidance: EH40  
Workplace Exposure Limits (revised annually)  
Korea regulations: Industrial safety and hygiene regulation: No  
Hazardous material control regulation: No  
Fire prevention regulation: No

**Other regulations:**

EINECS inventory status:

Aqua:	231-791-2
Vaccinium Myrtillus Fruit Extract:	281-983-5
Saccharum Officinarum Extract:	294-424-5
Citrus Aurantium Dulcis Fruit Extract:	232-433-8
Citrus Limon Fruit Extract:	284-515-8
Acer Saccharum Extract:	294-807-7

TSCA inventory status:	Exempt
AICS inventory status:	Exempt 84012-28-2 & 7732-18-5 & 84082-34-8 & 91722-22-4 & 8028-48-6 & 84929-31-7 & 91770-22-8
Canadian (CEPA DSL) inventory status:	Listed as Water (DSL) & Vaccinium myrtillus, ext. (DSL) & Sugar Cane, ext. (Revised ICL) & Orange, Sweet, ext. (DSL) (or) Orange, ext. (DSL) & Lemon, ext. (DSL) & Maple, Acer saccharum, ext. (Revised ICL)
Japan (MITI list):	Vaccinium Myrtillus Fruit Extract & Saccharum Officinarum (Sugar Cane) Extract & Citrus Aurantium Dulcis (Orange) Fruit Extract & Citrus Limon (Lemon) Fruit Extract & Acer Saccharum (Sugar Maple) Extract
Korea:	Vaccinium Myrtillus Fruit Extract & Saccharum Officinarum (Sugar Cane) Extract & Citrus Aurantium Dulcis (Orange) Fruit Extract & Citrus Limon (Lemon) Fruit Extract** & Acer Saccharum (Sugar Maple) Extract
China inventory status:	Vaccinium Myrtillus Fruit Extract & Saccharum Officinarum (Sugar Cane) Extract & Citrus Aurantium Dulcis (Orange) Fruit Extract & Citrus Limon (Lemon) Fruit Extract & Acer Saccharum (Sugar Maple) Extract
Philippines inventory status:	Exempt: Citrus Aurantium Dulcis (Orange) Fruit Extract (84012-28-2) & Acer Saccharum (Sugar Maple) Extract (91770-22-8) Listed as Water & Vaccinium myrtillus, ext. & Saccharum Officinarum, ext. & Orange, Sweet, ext. & Lemon, ext.

\*Listed on 2010 INCI Standard Chinese Name Directory

\*\*Not listed in 2004 CTFA Dictionary – Registered with Personal Care Products Council



**Material safety data sheet**  
According to EU Regulation 1907/2006 in the current version  
**AHA Fruit Acids**

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**15.2. Chemical safety assessment**

Assessment: N/A

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

**16. Additional information**

**16.1. Abbreviations**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

**Disclaimer:**

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.