

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name: AC AlfalfaBoost
Product Code: 20988

1.2. Relevant identified uses of the substance/mixture and uses advised against

Recommended Use: For industrial cosmetic use only.
Restrictions on Use: None

1.3. Details of the supplier of the safety data sheet

Company name: Active Concepts Srl
Company address: Via Petrolo Litta, 9 - 20008 – Bareggio (MI) ITALY
Telephone number: +39 (0)2 903 60 719
Fax number: +39 (0)2 903 60 718
E-mail address: info@activeconcepts.it

1.4. Emergency telephone number

Emergency telephone number: +39 (0)2 903 60 719 - Mon-Fri: 8:00AM-5:00PM

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance/mixture

Classification:

The product is not classified pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments).

2.2. Labeling Elements

Provided symbols / Pictograph: No hazard symbol expected

Signal Words: Not applicable

Hazard Statements: Not applicable

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 32°C

2.3. Other hazards:

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.
The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Information not relevant

3.2. Mixture

Common Chemical Name: Medicago Sativa (Alfalfa) Callus Culture Conditioned Media Extract & Lactobacillus Ferment Lysate

Generic Name:

Chemical Family: Extract

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

<u>Substance</u>	<u>CAS Numbers</u>	<u>EC Numbers</u>	<u>Percentage (%)</u>	<u>Classification</u>	<u>REACH</u>
Medicago Sativa (Alfalfa) Callus Culture Conditioned Media Extract	84082-36-0	281-984-0	98.00%	N/A	Exempt
Lactobacillus Ferment Lysate	68333-16-4 (or) 92128-79-5	N/A (or) 295- 777-8	2.00%	N/A	Exempt

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. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Equipment: Water, dry chemicals, foam and carbon dioxide

Unsuitable Extinguishing Equipment: None known

5.2. Special hazards arising from the substance/mixture

Unusual Fire and Explosion Hazards: None known

Hazards Caused By Exposure In The Event Of Fire:

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

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. Sweep or vacuum up any powder and place in a clearly labeled waste container, avoiding dust formation.

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 dry place at temperatures not exceeding 32°C. Based on stability studies, the optimum storage temperature for maximization of shelf life is 23 - 25°C. However, it may be stored at temperatures between 16 and 32°C if such specific temperature control is not available. Do not freeze. Please refer to stability data for effects heat or cold may have on the specifications of the product.
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

8.2. Exposure controls/ Personal Protective Equipment:

Respiratory protection:	Local exhaust.
Hand protection:	Protective gloves made of rubber or neoprene.
Eye protection:	Safety glasses.

Environmental Exposure Controls: No particular measures.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear to slightly hazy liquid
Color	Colorless to pale amber
Odor	Characteristic
Odour threshold	N/A
Melting point / freezing point	Not applicable / Not determined
Initial boiling point	Not determined
Flammability	N/A
Lower explosive limit	N/A
Upper explosive limit	N/A
Flash point	> 93°C
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Kinematic viscosity	N/A
Dynamic viscosity	N/A
Solubility	
In water:	Soluble
In organic solvents:	Not determined
Log P:	Not determined
Partition coefficient: n-octanol/water	N/A
Vapour pressure	N/A
Density and/or relative density	Not determined
Relative vapour density	N/A
pH (Direct)	4.0 – 6.0
NVM (1g-1hr-105°C)	12.0 – 20.0%
Protein (Biuret)	Positive
Sulfur Content (ICP/MS)	3.0 – 5.0%
Heavy Metals:	< 20 ppm
Lead:	< 10 ppm
Arsenic:	< 2 ppm
Cadmium	< 1 ppm
Microbial Content:	< 100 CFU/g; No pathogens
Yeast & Mold:	< 100 CFU/g
Gram Negative Bacteria:	0 CFU/g

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

Acute Toxicity	Non-Irritant, Non-Primary Sensitizer & Non-Photo Irritant
Skin Corrosion / Irritation	Non-Irritant (Dermal Irritation Model)
Serious Eye Damage / Irritation	Non-Irritant (Ocular Irritation Model)
Respiratory Or Skin Sensitisation	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)
Germ Cell Mutagenicity	Non-Mutagenic (OECD471/ISO10993.Part 3 – Genotoxicity: Bacterial Reverse Mutation Test)
Carcinogenicity	No known effects
Reproductive Toxicity	No known effects
Stot - Single Exposure	Not Determined
Stot - Repeated Exposure	No known effects
Aspiration Hazard	Not Determined

11.2. Information on other hazards

N/A

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity:

Effects on the aquatic environment: EC10 (Freshwater Alga): 98.55 mg/L - Not harmful to aquatic organisms
EC20 (Freshwater Alga): 184.22 mg/L - Not harmful to aquatic organisms

12.2. Persistence and degradability

Persistence and degradability: Readily Biodegradable (92.6% biodegradation after 28 days of testing)

12.3. Bioaccumulative potential

Bioaccumulative potential: Not determined

12.4. Mobility in soil

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. Endocrine disrupting properties

Endocrine disrupting properties: None known

12.7. 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.

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 air transport and is not regulated by ICAO/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. Packing group

Packing group: None

14.5. Environmental hazards

Environmental hazards: None

14.6. Special precautions for user

Precautions: None known

14.7. Maritime transport in bulk according to IMO instruments

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

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006:
Not Applicable

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors:
Not Applicable

Substances in Candidate List (Art. 59 REACH):
Not Applicable

Substances subject to authorisation (Annex XIV REACH):

Not Applicable

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Not Applicable

Substances subject to the Rotterdam Convention:

Not Applicable

Substances subject to the Stockholm Convention:

Not Applicable

Healthcare controls

Not Applicable

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

Not Applicable

Other regulations:

EINECS inventory status:	Medicago Sativa (Alfalfa) Callus Culture Conditioned Media Extract: 281-984-0 Lactobacillus Ferment Lysate: N/A (or) 295-777-8
TSCA inventory status:	Exempt
AICS inventory status:	Not Listed: 92128-79-5 Listed: 84082-36-0 & 68333-16-4
Canadian (CEPA DSL) inventory status:	Not Listed: Lactobacillus Ferment Lysate (92128-79-5) Listed as Alfalfa, ext. (DSL) & Lactobacillus acidophilus (Revised ICL)
Japan (MITI list):	Medicago Sativa (Alfalfa) Callus Culture Conditioned Media Extract** & Lactobacillus Ferment Lysate
Korea:	Medicago Sativa (Alfalfa) Callus Culture Conditioned Media Extract^ & Lactobacillus Ferment Lysate
China inventory status:	Not Listed: Medicago Sativa (Alfalfa) Callus Culture Conditioned Media Extract Listed: Water & Lactobacillus Ferment Lysate
Philippines inventory status:	Not Listed: Medicago Sativa (Alfalfa) Callus Culture Conditioned Media Extract (84082-36-0) & Lactobacillus Ferment Lysate (68333-16-4) Listed as Lactobacillus fermentatae, lysate

*Listed on 2010 INCI Standard Chinese Name Directory

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

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. OTHER INFORMATION

Prohibited uses:	For specific uses, food industry, ask the manufacturer for more information.
Last Revision Date:	27/06/2023
Preparation Date:	02/10/2023
MSDS summary of changes:	<ul style="list-style-type: none">- Updated Common Chemical Name, Substance Name & Percentage Breakdown– Section 3 (Composition / Information on Ingredients) & Updated Other Regulations - Section 15 (Regulatory Information)- Updated Tradename – Section 1 (Identification)- Added Irritation & Updated Acute Toxicity Data – Section 11 (Toxicological Information)- Added Sulfur Content Parameter – Section 9 (Physical & Chemical Properties)- Added Ecotoxicity & Biodegradability Data – Section 12 (Ecological Information)- Updated Recommended Use – Section 1 (Identification), Updated Acute Toxicity Data & Added Sensitization & Mutagenicity Data – Section 11 (Toxicological Information)- Added Protein Content Parameter – Section 9 (Physical & Chemical Properties)- Updated EINECS Inventory Status – Section 15 (Regulatory Information)
Further information:	<p>This document is in accordance with EC Directive 2001/58/EC and the Regulation (EC) 1907/2006 (REACH) Annex II The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.</p>