essedielle
ENOLOGIALIMENTAZIONE
SISTEMA DI GESTIONE PER LA SICUREZZA ALIMENTARE
CERTIQUALITY
UNI EN ISO 22000:2018
OPERATORE CONTROLLATO S 1262
CERTIFICATO ICEA BIOLOGICO
essedielle srl
Loc. Macinini Fraz. Caldari
66026 Ortona (CH)
Num. REA CH-72915
P.IVA e CF: 00639090695
Codice Univoco SUBM70N
Capitale Sociale € 100.000,00

SAFETY DATA SHEET

AROCLEAR

Revision No. 3, October 2023; Complies with Reg (EU) 2020/878

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

1.1 Product identification
Chemical name: Potassium alginate $KC_6H_7O_6$ Hydrolyzed stabilized with 0.6% sulfur dioxide
Trade names and synonyms: Aroclear

1.2 Relevant identified uses of the substance/mixture and uses not recommended:
Food additive, for professional use only.

1.3 Information about the supplier of the safety data sheet
essedielle srl
S.P. 538 km. 6,950 - CALDARI
66026 ORTONA (CH)
ITALY
Phone: +39 (0) 85 9031315
Qualified persons responsible for the safety data sheet: laboratorio@essedielle.com

1.4 Emergency telephone number: essedielle srl +39 (0) 85 9031315 – 0039 3668134126
Poison Control Center
S.S. Annunziata Hospital – Chieti +39 0871 1551219

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture.
Criteria EC Regulation 1272/2008 (CLP): no specific hazard is found in normal use. The product is not considered hazardous according to EC Regulation 1272/2008 (CLP)
Physicochemical effects harmful to human health and the environment: no other hazards

2.2 Label elements
Labeling in accordance with Regulation (EC) No. 1272/2008.
Symbols: no hazard pictograms

2.3 Other hazards
Contains:
Potassium Alginate:
Potassium Bisulfite (Sulfur dioxide and sulfites in concentrations greater than 10 mg/kg or 10 mg/l ofSO_2 in accordance with EEC/EU Reg. 25/10/2011 No. 1169-Annex II and subsequent additions and amendments).
For professional use only.
For limited food use: oenological use.
The substance/mixture does NOT contain PBT/vPvB substances according to Regulation (EC) 1907/2006, Annex XIII.
No information on other hazards.

3. COMPOSITION/INGREDIENT INFORMATION

3.1 Substances
Identification of the substance: potassium alginate
Chemical name: potassium alginate KC6H7O6
Trade name: Aroclear

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3.2 Mixture

Substance	Concentration	Classification	CAS	EINECS	REACh
Potassium alginate	1,5% P/P	3.3/2 Eye Irrit. 2 H319 EUH031	9005 32 7	232-680-1	
Sulfur dioxide	0.6% P/P	Eye Irrit. 2, H319	7773-03-7	231-870-1	

4. FIRST AID MEASURES

4.1 Description first aid measures
In case of inhalation: take the injured person to fresh air. If breathing is difficult give oxygen or practice artificial respiration.
In case of skin contact: remove contaminated clothing immediately. Immediately wash areas of the body that have come in contact with the toxicant, even if only suspected, with plenty of running water and soap if necessary. Wash the body completely (shower or bath).
In case of eye contact: immediately flush with running water with open eyelids for at least 15 minutes. Consult an ophthalmologist. Protect the uninjured eye.
In case of ingestion: induce vomiting. Seek immediate medical attention, showing the safety data sheet.

4.2 Main symptoms and effects, both acute and delayed
No data available.

4.3 Indication of any need for immediate medical attention and special treatment
No data available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing means
Suitable extinguishing means
Water. Carbon dioxide (CO2).
Extinguishing media that should not be used for safety reasons
None in particular.

5.2 Special hazards from combustion products
Do not inhale the gases produced by the explosion and combustion.

5.3 Recommendations for fire suppression operators
Employ appropriate respiratory equipment. Collect contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system. If feasible from a safety standpoint, move undamaged containers from the immediate danger area.

5.4 Other information
Water used in firefighting that is contaminated with the product must be disposed of in accordance with local regulations.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal precautions, personal protective equipment and emergency procedures
For those not taking direct action: move away from the area surrounding the spill or release. Do not smoke. Wear gloves and protective clothing.

For direct interveners: eliminate all open flames and possible sources of ignition. Do not smoke. Provide adequate ventilation. Evacuate the danger area and, if necessary, consult an expert.

6.2 Environmental precautions
Prevent penetration into the soil/subsoil. Prevent runoff into the sewer system.

6.3 Methods and materials for containment and remediation
For containment: collect the product for reuse, if possible, or disposal. If possible, absorb it with inert material. Prevent it from entering the sewage system.
For cleanup: after collection, wash the area and affected materials with water.
Other information: none in particular.

6.4 Reference to other sections
See also paragraph 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid skin and eye contact, inhalation of vapors and mists. Do not eat or drink while working. Also refer to section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials: none in particular.
See also section 10 below.
Indication for premises: adequately ventilated premises.

7.3 Specific end uses
Food industries: handle with care. Store in a clean, dry and ventilated environment, away from heat sources and direct sunlight. Keep container tightly closed.
Industrial uses: handle with extreme care. Store in a well-ventilated place and away from heat sources.
Professional uses: handle with caution. Store in ventilated place and away from heat sources. Keep container tightly closed.

8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

8.1 Control parameters
No occupational exposure limits available.
DNEL exposure limit values: N.A.
PNEL exposure limit values: N.A.
Related to contained substances: POTASSIUM BISOLPHITE: TLV STEL: 0.25 ppm (SO_2)

8.2 Exposure controls

Appropriate engineering controls:
Food industries: no specific control provided (act according to correct practice and specific regulations provided for the type of associated risk).

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Industrial uses: no specific control provided (act according to correct practice and specific regulations provided for the associated type of risk).
Professional uses: no specific control provided (act according to correct practice and specific regulations provided for the associated type of risk).

Individual protective measures:
Eye protection
Use safety glasses (caged goggles) (EN166) when handling the pure product.

Skin protection
Wear clothing that provides total protection for the skin, e.g., cotton, rubber, PVC.

Hand protection
Use chemical-resistant protective gloves (EN 374-1/EN374-2/EN374-3) when handling the pure product.

Respiratory protection
Not necessary when adequate ventilation is provided. Alternatively, use protective mask.

Thermal hazards
None

Environmental exposure controls
Related to contained substances:
POTASSIUM ALGINATE
Hand protection: not necessary
Eye protection: not necessary
Skin protection: not necessary
POTASSIUM BISULFITE
Eye protection: use closed safety visors, do not use eye lenses.
Skin protection: wear clothing that provides total protection for the skin, e.g., cotton, rubber,PVC or viton.
Hand protection: use protective gloves that provide full protection, e.g., PVC, neoprene or rubber.
Respiratory protection: where ventilation is insufficient or exposure is prolonged employ a respiratory protective device, e.g., CEN/FFP-2(S) or CEN/FFP-3(S).
Thermal hazards: none
Environmental exposure controls: none

9. PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on general physical and chemical properties

Appearance	Straw yellow liquid
Shape	Liquid
Color	Yellowish
Odor	Pungent
Olfactory threshold	Not determined
Ph value	4
CHANGE OF STATE	
Melting point/interval	Non determined
Boiling point/interval	105 °C
Flash point	Not determined
Flammability (solids, gases)	Not determined
Auto-ignition temperature	Not determined

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Decomposition temperature	Not determined
Explosive properties	Non explosive
Lower flammability limits	Not determined
Upper flammability limits	Not determined
Vapor pressure at 20°C	Not determined
Density at 20°C	1.15 g/ml
Relative density	Non determined
Vapor density at 20°C	Not determined
Evaporation rate	Not determined
Solubility in/Miscibility with water	Partially insoluble
Specific rotation	Not determined
Partition coefficient: n-octanol/water	Not determined
Dynamic Viscosity at 20 °C	Not determined
Kinematic Viscosity	Not determined

9.2 Other information

Molecular mass	Not determined
Conductivity	Not determined
Liposolubility	Not determined
Particular properties groups of substances	None
Other Useful Information	None

10. STABILITY AND RESPONSIVENESS

10.1 Responsiveness
Under normal conditions, it is completely stable to air and light.

10.2 Chemical stability:
No hazardous reaction if handled and stored according to regulations.

10.3 Possibility of dangerous reactions
Stable under normal conditions.

10.4 Conditions to be avoided
Stable under normal conditions.

10.5 Incompatible materials
None in particular.

10.6 Hazardous decomposition products
None.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Toxicological information regarding the mixture: the product is non-toxic.

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ATE (mix) oral = ∞
ATE (mix) dermal = ∞
ATE (mix) inhal = ∞

a) acute toxicity: based on available data, the classification criteria are not met.
b) skin corrosion/irritation: based on available data, the classification criteria are not met.
c) serious eye injury/serious eye irritation: accidental contact of the product with the eyes may cause irritation
d) respiratory or skin sensitization: in contact with skin. The product is not an irritant. Repeated and prolonged direct contact can degrease and irritate the skin causing dermatitis in some cases.
e) Germ cell mutagenicity: based on available data, the classification criteria are not met.
f) Carcinogenicity: based on available data, the classification criteria are not met.
g) Reproductive toxicity: based on available data, the classification criteria are not met.
h) specific target organ toxicity (STOT)-single exposure: based on available data, the classification criteria are not met.
i) specific target organ toxicity (STOT)-repeated exposure: based on available data the classification criteria are not met.
j) Aspiration/inhalation hazard: on inhalation/inhalation causes abrupt irritation of the nasal fauces with repercussions on the visual apparatus which is severely affected.
k) Prolonged exposures to vapors or mists of the product may cause irritation to the respiratory tract.

Toxicological information related to contained substances
ARABIC GUM
Acute toxicity LD50 (oral, rat): > 5000mg/kg

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Use according to good working practices, avoiding spillage into the environment.

12.2 Persistence and degradability
Related to contained substances:
Potassium alginate: completely biodegradable
Potassium bisulfite: none

12.3 Bioaccumulative potential
Related to contained substances: none

12.4 Mobility in soil
Related to contained substances: none

12.5 Results of PBT and vPvB assessment vPvB substances: none - **PBT substances**: none

12.6 Other adverse effects
No adverse effects observed

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
PRODUCT
Inorganic product not to be disposed of through biological treatment systems. Dispose of residues in accordance with current regulations through authorized disposers.

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Recover if possible. Operate in accordance with current local and national regulations.
CONTAMINATED PACKAGING
Empty as best as possible by fully opening them. Dispose of in accordance with the constituent material.

13.2 HP Phrases
None

14. TRANSPORTATION INFORMATION

14.1 UN number
Not included in the scope of dangerous goods transport regulations: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2 UN shipping name
N.A.

14.3 Transport hazard class(es)
N.A.

14.4 Packing group
N.A.

14.5 Environmental hazards Marine pollutant
No

14.6 Special precautions for users
N.A.

14.7 Transport of bulk according to MARPOL Annex II and the IBC Code
Transport of bulk cargoes is not intended.

15. REGULATORY INFORMATION

15.1 Health, safety and environmental laws and regulations specific to the substance or mixture
Legislative Decree 3/2/1997 No. 52 (Classification, packaging and labeling of dangerous substances)
Legislative Decree 14/3/2003 No. 65 (Classification, packaging and labeling of dangerous preparations)
D.M. Labor 26/02/2004 (Occupational exposure limits)
Ministerial Decree 03/04/2007 (Implementation of Directive No. 2006/8/EC)
Regulation (EC) No. 1907/2006 (REACH)
Regulation (EC) No. 1272/2008 (CLP)
Regulation (EC) No. 790/2009 (ATP 1 CLP)
Regulation (EU)No 453/2010 (Annex I)
Regulation (EU) No 286/2011 (ATP 2 CLP)
Restrictions related to the product or the contained substances according to Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent adaptations: none
Where applicable, please refer to the following regulations:
Ministerial Circulars 46 and 61 (Aromatic Amines)
Legislative Decree No. 238 of September 21, 2005 (Seveso Ter Directive)
EC Regulation No. 648/2004 (Detergents).
Royal Decree No. 147 of January 9, 1927 (Toxic Gases)
D.L. 3/4/2006 n. 152 Environmental regulations

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15.2 Chemical safety assessment
No

16. OTHER INFORMATION

This sheet cancels and replaces any previous edition.

This document was prepared by a technician competent in SDS and who has received appropriate training.
The information contained herein is based on our knowledge as of the date above.
It relates only to the product indicated and does not constitute a guarantee of any quality. The user is responsible for ensuring the suitability and completeness of this information in relation to the specific use to be made of it.

LEGENDA SIGLES
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Service of the Chemical Abstract (division of the American Chemical Society).CLP: Classification, Labeling, Packaging.
DNEL: Derived no-effect level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on hazardous substances, Germany.
GHS: General harmonized system of classification and labeling of chemicals.
IATA: International Air Transport Association.
IATA-DGR: Regulations for the Transport of Dangerous Goods of the "International Air Transport Association"(IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions of the "International Civil Aviation Organization"(ICAO).
IMDG: International Maritime Dangerous Goods Code.
INCI: International nomenclature of cosmetic ingredients.
KSt: Coefficient of explosion.
LC50: Lethal concentration for 50 percent of the population tested.
LD50: Lethal dose for 50 percent of the population tested.
N.A.: Not Available
PNEC: Predicted no-effect concentration.
RID: Regulations concerning the international transport of dangerous goods by rail.
STE: Short-term exposure.
STEL: Short-term exposure limit.
STOT: Specific target organ toxicity.TLV: Threshold limit value.
TWATLV: Threshold limit value for an 8-hour weighted average exposure per day. (ACGIH standard).
WGK: German water hazard class.