

VE-GEL Liquid

Issued on 10/22/2021 - Rel. # 2 on 10/22/2021

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In conformity to Regulation (EU) 2020/878

SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : VE-GEL Liquid Product code: refer to sales department

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

Clarifying Agents Sectors of use: Manufacture of food products[SU4] Product category: Process aid for enological use

Not recommended uses Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

AEB SpA

Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)

AEB USA

Switchboard: +1 2096258139 (GMT -8; Language: English)

AEB AFRICA (PTY) LTD

Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

AEB OCEANIA PTY LTD Switchboard: +61 1300 704 971 (GMT +9; Language: English)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms: None

Hazard Class and Category Code(s): Non hazardous

Hazard statement Code(s): Non hazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s): None

Hazard statement Code(s): Non hazardous

Supplemental Hazard statement Code(s): EUH210 - Safety data sheet available on request.

Precautionary statements: None in particular.

Contains:

Ingredients: vegetable proteins (pea proteins) and activated bentonite, in a solution stabilized with citric acid and potassium bisulfite(a) (10 g/hL bring about 0,35 mg/L SO2). Food use. Also for oenological use. Not intended for the final consumer. In accordance with current regulations on the specific matter.

(a)=sulfites

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(<Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as SO2>in compliance with Regulation (EU) No 1169/2011 - Annex II and subsequent additions and modifications)

2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
Citric acid	>= 3 < 5%	Eye Irrit. 2, H319		5949-29-1	201-069-1	01-2119457 026-42-XXX X
ACTIVED BENTONITE substance for which there are Community workplace exposure limits	>= 1 < 2,5%			1302-78-9	215-108-5	

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product).: Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product).: Wash immediately and thorougly with running water for at least 10 minutes.

Ingestion:

Not dangerous. In case of malaise consult a doctor.

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

No data available.

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

No data available.



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SECTION 5. Firefighting measures

5.1. Extinguishing media

Suggested extinguishing media: Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid: Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas. Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: Leave the area surrounding the spill or release. Do not smoke Wear gloves and protective clothing

6.1.2 For emergency responders:Eliminate all unguarded flames and possible sources of ignition. No smoking.Privide a sufficient ventilation.Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills Inform the competent authorities. Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment: Recover the product for reuse, if possible, or for elimination.

6.3.2 Cleaning up: After wiping up, wash with water the area and materials involved

6.3.3 Other information: None in particular.



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6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

At work do not eat or drink. See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers. Keep containers upright and safe by avoiding the possibility of falls or collisions. Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Manufacture of food products: Handle with care. Store in a clean, dry, ventilated area away from heat and direct sunlight. Keep container tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances: ACTIVED BENTONITE: BENTONITE ATTIVATA: INHALABLE, DUST

Limit value – Eight hours (ppm)/(mg/m3) Austria: x/10 Belgium: x/10 Denmark: x/10 France: x/10 Germany (AGS): x/10(1)(2)(3) Germany (DFG): x/4 Hungary: x/10 Ireland: x/10 Singapore: x/10 Spain: x/10 Sweden: x/10 Switzerland: x/10 USA – OSHA: x/15

RESPIRABLE DUST

Limit value – Eight hours Austria: x/5 Belgium: x/3



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France: x/5 respirable aerosol Germany (AGS): x/1,25 (1)(2)(3)(4)(5) Germany (DFG): x/1,5 Hungary: x/6 Ireland: x/4 Spain: x/3 Sweden: x/5 Switzerland: x/3 USA – OSHA: x/5

Remarks INHALABLE DUST

Germany (AGS): (1) Insoluble particulates (2) not applicable for ultra – fine dusts and dusts with specific toxicity (3) the limit value is a general upper limit for technical measures, as long as no specific regulations for toxic or carcinogenic substance arew available

RESPIRABLE DUST

France: Bold type: Restrictive statutory limit values

Germany (AGS): (1) Insoluble particulates (2) not applicable for ultra – fine dusts and dusts with specific toxicity (3) the limit value is a general upper limit for technical measures, as long as no specific regulations for toxic or carcinogenic substances are available (4) the limit value was derived for dusts with an average density of 2.5 mg/mg3 (5) at work areas where all technical and further measures are state of the art but the LV is still not adhered, the old LV can be applied for a transitional period until 31st December 2018 (8 h – LV: 3.0 mg/m3, 15 minutes average value: 6.0 mg/m3 Germany (DFG): Insoluble particulates

L'ACGIH ritiene che anche particelle biologicamente inerti, insolubili o poco solubili, possono avere effetti avversi e, pertanto, raccomanda che la concentrazione di tali polveri nell'aria sia mantenuta al di sotto di: 3mg/m3, per le particelle respirabili; 10mg/m3, per le particelle inalabili, momento in cui sarà stabilito un TLV per la particolare sostanza.

- Substance: Citric acid PNEC Sweet water = 0,44 (mg/l) sediment Sweet water = 34,6 (mg/kg/sediment) Sea water = 0,044 (mg/l) sediment Sea water = 3,46 (mg/kg/sediment) STP = 1000 (mg/l) ground = 33,1 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls: Manufacture of food products: No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(b) Skin protection

(i) Hand protection

Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations



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(ii) Other Wear normal work clothing.

(c) Respiratory protection Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(d) Thermal hazards No hazard to report

Environmental exposure controls: Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Cloudy liquid	
Colour	Beige	
Odour	not determined as it is considered not relevant for the characterization of the product	
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
рН	3,5 ± 0,5 (20°C)	
Melting point/freezing point	not determined as it is considered not relevant for the characterization of the product	
Initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flash point	not determined as it is considered not relevant for the characterization of the product	ASTM D92
Evaporation rate	not determined as it is considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as it is considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	not determined as it is considered not relevant for the characterization of the product	
Vapour pressure	not determined as it is considered not relevant for the characterization of the product	
Vapour density	not determined as it is considered not relevant for the characterization of the product	
Relative density	0,95 ± 0,05 (20°C)	
Solubility	not determined as it is considered not relevant for the characterization of the product	
Water solubility	not determined as it is considered not relevant for the characterization of the product	
Partition coefficient: n-octanol/water	not determined as it is considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as it is considered not relevant for the characterization of the product	
Decomposition temperature	not determined as it is considered not relevant for the characterization of the product	



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Physical and chemical properties	Value	Determination method	
Viscosity	not determined as it is considered not relevant for the characterization of the product		
Explosive properties	not determined as it is considered not relevant for the characterization of the product		
Oxidising properties	not determined as it is considered not relevant for the characterization of the product		

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

Related to contained substances: Citric acid: It is not pyrophoric

ACTIVED BENTONITE: Inert - Non-reactive

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

ACTIVED BENTONITE: Minimize dust formation in inadequately ventilated indoor areas. Slippery if wet

10.5. Incompatible materials

No one in particular

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.



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SECTION 11. Toxicological information

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

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

(a) acute toxicity: Citric acid: Not classified ACTIVED BENTONITE: Ingestion-rat LD50 (mg/kg/bw 24h): > 2000

Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): n.a.

Inhalation-rat LD50 (mg/l/4h): > 5.27 (b) skincorrosion/irritation: Citric acid: Not corrosive **ACTIVED BENTONITE: Non-corrosive** Citric acid: Irritating ACTIVED BENTONITE: Non-irritating (c) serious eye damage/irritation: Citric acid: Not corrosive ACTIVED BENTONITE: Non-corrosive Citric acid: Irritating ACTIVED BENTONITE: Slightly irritating (d) respiratoryorskinsensitisation: Citric acid: Not available ACTIVED BENTONITE: Non-sensitizing (e) germ cell mutagenicity: Citric acid: Not mutagenic ACTIVED BENTONITE: Non-mutagenic (f) carcinogenicity: Citric acid: Not carcinogenic ACTIVED BENTONITE: Non-carcinogenic (g) eproductivetoxicity: Citric acid: Non-toxic for reproduction ACTIVED BENTONITE: Non-toxic for reproduction (h) specific target organ toxicity (STOT) single exposure: Citric acid: Not available **ACTIVED BENTONITE: Non-toxic** (i) specific target organ toxicity (STOT) repeated exposureCitric acid: Rat: NOAEL: 4,000 mg / kg LOAEL: 8,000 mg / kg Application method: Oral Exposure time: 10 d Doses: 2, 4, 8, 16 g / kg bw / day ACTIVED BENTONITE: Non-toxic (j) aspiration hazard: Citric acid: Unavailable ACTIVED BENTONITE: There are no dangers for aspiration

Health Hazards:

Eye contact: Accidental contact of product with eyes may cause irritation.

Skin Contact: Product is not an irritant. Prolonged or repeated contact may defeat and irritate the skin and cause dermatitis in some cases.

Ingestion: The ingested product may cause irritation of the mucous membranes of the throat and digestive system leading to digestive symptoms and abnormal bowel disorders.

Inhalation: Prolonged exposure to vapours or mists of product may cause respiratory irritation.

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information



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12.1. Toxicity

ACTIVED BENTONITE: Acute toxicity - fish LC50 (mg / I / 96h): 16000 Acute toxicity - crustaceans EC50 (mg / I / 48h): nd Acute algae toxicity ErC50 (mg / I / 72-96h):> 100

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

Related to contained substances: Citric acid: Easily biodegradable

ACTIVED BENTONITE: Not persistent

12.3. Bioaccumulative potential

Related to contained substances: Citric acid: Not bioaccumulative

ACTIVED BENTONITE: Not bioaccumulative

12.4. Mobility in soil

Related to contained substances: Citric acid: Unavailable

ACTIVED BENTONITE: Not available

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present



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12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies. Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number or ID number

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.



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14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC in a proportion $\ge 0.1\%$. Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC in a proportion $\ge 0.1\%$. Reg. EC 648/04: see 2.2 Reg. (EU) n. 1169/2011: see 2.2 Reg (UE) 528/2012: see to 2.2

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.2. Label elements, 8.2. Exposure controls

Description of hazard statements set out in paragraph 3 H319 = Causes serious eye irritation.

Classification based on data of all mixture components

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.
Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.
Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.
Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.
Regulation (UE) 528/2012 (Biocides) et seq.

Procedure used to classify under CLP mixture (Reg . EC 1272/2008): irrilevant

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

- n.a.: not applicable
- n.d.: not available

ADR: Accord europèen relative au transport International des merchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimat

BFC: BioconCentration Factor

BOD: Biochemical Oxigen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)



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CL50/LC50: Lethal Concentration 50 DL50/LD50: Lethal Dose 50 COD: Chemical Oxygen Demand DNEL: Derived No Effect Level EC50: half maximal Effective Concentration ERC: Enviroment Release Classes EU/UE: European Union IATA: International Air Transport Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods code Kow: Octanol water partition coefficient NOEC: No Observed Effect Concentration OEL: Occupational Exposure Limit PBT: Persistent Bioaccumulative and Toxic PC: Product Categories PNEC: Predicted No Effect Concentration **PROC:** Process Categories RID: Règlement concernent le transport International ferroviaire des merchandises dangereuses (Regulations concerning International rail transport of dangerous goods) STOT: Target Organ Systemic Toxicity STOT (RE): Repeated Exposure STOT (SE): Single Exposure STP: Sewage Treatment Plants SU: Sector of Use SVCH: Substance of Very High Concern TLV: Threshold Limit Value vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:
- https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
- SDS supplier
- · GESTIS DNEL Database: http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp
- · GESTIS International Limit Value: http://limitvalue.ifa.dguv.de

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*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: label variation. Compliance with Regulation 2020/878.