

CLAROUGE

Issued on 10/12/2021 - Rel. # 8 on 10/12/2021

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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: CLAROUGE

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

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

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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: egg albumin(a), activated bentonite, silica gel, gelatin food (swine).

Food use, oenological use. Not intended for the final consumer. In accordance with current regulations on the specific matter.

(a)= Eggs and products thereof

(<Eggs and products thereof>in compliance with Regulation (EU) No 1169/2011 - Annex II and subsequent additions

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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

No dangerous substance to report.

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
ACTIVED BENTONITE substance for which there are Community workplace exposure limits	>= 25 < 50%			1302-78-9	215-108-5	
Silica gel substance for which there are Community workplace exposure limits	>= 5 < 10%				231-545-4	

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.

Silica gel:

Silica, amorphous

Limit value - Eight hours (ppm)/(mg/m³)

Australia: -/2 (1)

Austria: -/4 inhalable aerosol

Belgio: -/10

Canada – Ontario: -/10 Canada - Québec: -/6(1)

Denmark: 0-/ 2 inhalable aerosol

Finland: -/5

Germany (AGS): -/4 inhalable aerosol

Germany (DFG): -/4 (1) Ireland: -/6 (1); -/2,4 (2)

Latvia: -/1 New Zealand: -/1

People's Republic of China: -/2(1)

Poland: -/10(1); -/2 (2) Singapore: -/10 South Korea: -/10

Switzerland: -/4 inhalable aerosol aerosol USA - OSHA: 80% silica totale dust

United Kingdom: :-/6 inhalable aerosol; -/2,4 respirable aerosol

Limit value - Short term

 $(ppm)/(mg/m^3)$

Denmark: -/4 inhalable aerosol



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Australia (1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

Canada - Québec (1) Respirable fraction

Germany (DFG) (1) Inhalable fraction

Ireland (1) Inhalable fraction (2) Respirible fraction

People's Republic of China (1) Inhalable fraction

Poland (1) Inhalable fraction (2) Respirable fraction

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: 3 mg/m3, per le particelle respirabili; 10 mg/m3, per le particelle inalabili, fino al momento in cui sarà stabilito un TLV per la particolare sostanza.

- Substance: Silica gel

DNEL

Local effects Long term Workers inhalation = 4 (mg/m3)

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

(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



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Physical and chemical properties	Value	Determination method	
Appearance	Fine powder		
Colour	White cream		
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	7.5 ± 0.5 (20 ° C; sol. 5%)		
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	0.50 ± 0.10 (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		
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

No risk of reactivity

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10.2. Chemical stability

No dangerous reaction if manipulated and stored according to regulations.

10.3. Possibility of hazardous reactions

High humidity (it should not cause dangerous reactions, but it could cause microbiological changes in the product). Hygroscopic product, store in dry conditions.

10.4. Conditions to avoid

Avoid exposure to heat

10.5. Incompatible materials

None in particular

10.6. Hazardous decomposition products

None under normal storage conditions. Decomposition temperature: stable under normal storage conditions.

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: 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

Silica gel: Ingestion-rat LD50 (mg/kg/bw24h): > 3100

Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): > 5000

Inhalation-rat LD50 (mg/l/4h): n.a.

(b) skincorrosion/irritation: ACTIVED BENTONITE: Non-corrosive

Silica gel: Non-corrosive

ACTIVED BENTONITE: Non-irritating

Silica gel: Non-irritating

(c) serious eye damage/irritation: ACTIVED BENTONITE: Non-corrosive

Silica gel: Non-corrosive

ACTIVED BENTONITE: Slightly irritating

Silica gel: Non-irritating

(d) respiratoryorskinsensitisation: ACTIVED BENTONITE: Non-sensitizing

Silica gel: Non-sensitizing

(e) germ cell mutagenicity: ACTIVED BENTONITE: Non-mutagenic

Silica gel: Non-mutagenic

(f) carcinogenicity: ACTIVED BENTONITE: Non-carcinogenic

Silica gel: Not cacerogeno

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(g) eproductivetoxicity: ACTIVED BENTONITE: Non-toxic for reproduction

Silica gel: Non-toxic for reproduction

(h) specific target organ toxicity (STOT) single exposure: ACTIVED BENTONITE: Non-toxic

Silica gel: Not available

(i) specific target organ toxicity (STOT) repeated exposureACTIVED BENTONITE: Non-toxic

Silica gel: Not available

(j) aspiration hazard: ACTIVED BENTONITE: There are no dangers for aspiration

Silica gel: Not available

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

12.1. Toxicity

Related to contained substances:

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

Silica gel:

Acute toxicity-fish LL50 (mg/l/96H): > 10000

Acute toxicity-crustaceans EL50 (mg/l/24H): > 10000

Acute algae toxicity ErC50 (mg/l/72-96H): n.a.

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

12.2. Persistence and degradability

Related to contained substances:

ACTIVED BENTONITE:

Not persistent

Silica gel:

Not biodegradable

12.3. Bioaccumulative potential

Related to contained substances:



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ACTIVED BENTONITE Not bioaccumulative
Silica del:

Not bioaccumulative

12.4. Mobility in soil

Related to contained substances:
ACTIVED BENTONITE:
Not available

Silica gel: Not applicable

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

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

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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.

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 \geq 0.1%. Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC in a proportion \geq 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: 2.2. Label elements, 8.1. Control parameters, 8.2. Exposure controls

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.

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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)

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

This msds was made in good faith by AEB technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be



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construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

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

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