



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

### 1.1. Product identifier

Product name : CRYSTALFLASH  
Product code: refer to sales department

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

Specific Treatment - Acidification

Sectors of use:

Industrial Manufacturing[SU3], Manufacture of food products[SU4], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

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

AEB BIOCHEMICAL USA  
111 N Cluff Avenue  
Lodi CA 95240 (USA)  
Tel: +1 2096258139 Fax: +1 2092248953  
Email: [info@aebusa.com](mailto:info@aebusa.com) - Internet: [www.aeb-group.com](http://www.aeb-group.com)

Produced by  
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### 1.4. Emergency telephone number

Centralino/Switchboard/Telefonzentrale: +1 2096258139

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

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

Non hazardous

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):

not applicable



Precautionary statements:  
None in particular.

**2.3. Other hazards**

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

**SECTION 3. Composition/information on ingredients**

**3.1 Substances**

Irrilevant

**3.2 Mixtures**

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
POTASSIUM BICARBONATE	> 30 <= 50%			298-14-6	206-059-0	01-2119532 640-48-XXX X
POTASSIUM BITARTRATE	> 20 <= 30%			868-14-4	212-76-91	01-2119982 996-11-XXX X
BENTONITE	> 10 <= 20%			1302-78-9	215-108-5	
NEUTRAL POTASSIUM TARTRATE	> 5 <= 10%			921-53-9	213-067-8	01-2119971 056-36-XXX X
CELLULOSE	> 1 <= 5%			9004-34-6	232-674-9	

**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 thoroughly with running water for at least 10 minutes.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or medicinal mineral vaseline oil.

**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.



## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

Suggested extinguishing media:

Water spray, CO<sub>2</sub>, 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 and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

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.

Provide 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.

### 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 place, away from heat sources and direct exposure to sunlight.

## 7.3. Specific end use(s)

Industrial Manufacturing:

Handle with extreme caution.

Store in a well ventilated place away from heat sources.

Manufacture of food products:

Handle with care.

Store in a clean, dry, ventilated area away from heat and direct sunlight.

Keep container tightly closed.

Public domain (administration, education, entertainment, services, craftsmen):

Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

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Related to contained substances:

POTASSIUM BICARBONATE:

Does not contain substances with occupational exposure limit value.

CELLULOSE:

Components involving occupational exposure limits, requiring monitoring in respect of biological occupational exposure:

9004-34-6 Cellulose

Occupational exposure limits

Dell air limit values:

Limit value (country of origin): AGW (D)

name of the substance: General dust

Occupational exposure limit value: 3 mg/m<sup>3</sup>; 10 mg/m<sup>3</sup>

Maximum limit: 2 (s)

Source: TRGS 900

Limit value (country of origin): Limit (B)

Name of the substance: cellulose

Occupational exposure limit Value: 10 mg/m<sup>3</sup>

Source: GESTIS

Limit value (country of origin): Limit (CAN)

Name of the substance: cellulose

Occupational exposure limit Value: 10 mg/m<sup>3</sup>

Source: GESTIS

Limit value (country of origin): Limit (F & E)

Name of the substance: cellulose

Occupational exposure limit Value: 10 mg/m<sup>3</sup> inhalable aerosol

Source: GESTIS

Limit value (country of origin): Limit (CH)

Name of the substance: cellulose

Occupational exposure limit value: 10 mg/m<sup>3</sup> respirable aerosol

Source: GESTIS

Limit value (country of origin): Limit (USA)

Name of the substance: cellulose

Occupational exposure limit Value: 15 mg/m<sup>3</sup> total dust; 5 mg/m<sup>3</sup> respirable dust

Source: GESTIS

Limit value (country of origin): Limit (GB)

Name of the substance: cellulose



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In conformity to Regulation (EU) 2015/830

Occupational exposure limit Value: 10 mg/m<sup>3</sup> inhalable aerosols; 4 mg/m<sup>3</sup> respirable aerosol; 20 mg/m<sup>3</sup> inhalable aerosols (short term)  
Source: GESTIS

**8.2. Exposure controls**



Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Public domain (administration, education, entertainment, services, craftsmen):

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Not required when proper ventilation is provided. Alternatively use protective mask.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

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Related to contained substances:

POTASSIUM BICARBONATE:

Personal protection:

Respiratory protection: not required

If you want to protect against dust levels, use respirators with filters of type P1 (EN 143).

Hand protection: handle with gloves. Gloves should be checked before being used and shall meet the requirements of EU Directive 89/686/EEC and EN 374 standards arising therefrom.

Dispose of contaminated gloves after use in accordance with current legislation and good laboratory practices.

Eye protection: Use eye protection tested and approved in accordance with the requirements of appropriate technical standards as NIOSH (US) or EN 166 (EU).

Skin protection and body:

The type of protection should be selected depending on the concentration and amount of hazardous substance in the workplace.

Hygiene measures: general industrial hygiene practice.

BENTONITE:

Personal protection

Respiratory protection: not recommended the use of special equipment respiratory protection under normal conditions of use provided with adequate ventilation.

Skin protection: none.

Eye protection: Bench-specific data are not available for eye irritation, wear eye protection devices adapted to the conditions of use when handling

This material.

Ingestion: ingestion is unlikely.

Industrial hygiene: Ensure adequate ventilation to minimize concentrations of dust and/or fumes

CELLULOSE:

Product-related measures to prevent explosions: n/a

Educational measures for preventing explosions: n/a

Organisation measures to prevent explosions: n/a

**SECTION 9. Physical and chemical properties**



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

Physical and chemical properties	Value	Determination method
Appearance	white fine powder	
Odour	odorless	
Odour threshold	not determined	
pH	7,5 ± 0,5 (20°C; sol. 5%)	
Melting point/freezing point	not applicable	
Initial boiling point and boiling range	not applicable	
Flash point	irrelevant	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	irrelevant	
Vapour pressure	irrelevant	
Vapour density	irrelevant	
Relative density	0,85 ± 0,05 (20°C)	
Solubility	in water	
Water solubility	miscible	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	irrelevant	
Decomposition temperature	irrelevant	
Viscosity	not determined	
Explosive properties	irrelevant	
Oxidising properties	irrelevant	

**9.2. Other information**

No data available.

**SECTION 10. Stability and reactivity**

**10.1. Reactivity**

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 Related to contained substances:  
 POTASSIUM BICARBONATE:  
 Not available.  
 BENTONITE:  
 None under normal conditions.

**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

Nothing to report

### 10.5. Incompatible materials

None in particular.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

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 damage/irritation: based on available data, the classification criteria are not met.

(d) respiratory or skin sensitization: based on available data, the classification criteria are not met.

(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 hazard: based on available data, the classification criteria are not met.

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.

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Related to contained substances:

POTASSIUM BICARBONATE:

Acute toxic: no data available.

Corrosion/irritation: no data available.

Serious eye injuries/ocular irritation: no data available.

Respiratory or skin sensitization: no data available.

Mutagenicity on germ cells: no data available.

Carcinogenicity: IARC: no component of this product present at levels greater than or equal to 0.1% identified as known or anticipated carcinogen by IARC.

Toxic for reproduction: no data available.

Target organ-specific toxic-single exposure: no data available.



Danger in case of aspiration: no data available.

Potential health effects: inhalation: May be harmful if inhaled. May cause respiratory irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through the skin. Can cause skin irritation.

Eyes: May cause eye irritation.

POTASSIUM BITARTRATE:

Recommended Dose: 0.38 mg/kg body weight.

BENTONITE:

Oral rat Ld50 [mg/kg]: Data not available

CELLULOSE:

Toxicological data not on man: no data available

Toxicological data on man: no data available

Acute effects (toxicological tests):

Toxic acute oral LD50: 3000 mg/kg > Rat Bibliography

Acute toxic skin: LD50 or ATEmix

Acute inhalation: LC50 for toxic or ATEmix

Target specific toxic organs (Specific Target Organ Toxicity-STOT): n/a specific Symptoms in animal studies:

In case of ingestion: no data available

In case of contact with skin: no data available

In case of inhalation: no data available

In case of contact with eyes: no data available

Corrosive and irritant effects: n/a

Irritation to respiratory tract: no data available

Acid-basic reserve (buffer capacity measurement with extreme pH values): n/a

Sensitizing:

in case of contact with skin: no data available

in case of inhalation: no data available

Toxic Dose repeated (sub-acute, sub-chronic, chronic): n/a

Target specific toxic organs (Specific Target Organ Toxicity-STOT): n/a CMR Effects (mutagenicity and cancerogenicity, toxic for reproduction): n/a

Summary assessment for the CMR properties: n/a

LD50 (rat) Oral (mg/kg body weight) = 3000

## SECTION 12. Ecological information

### 12.1. Toxicity

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

Related to contained substances:

POTASSIUM BICARBONATE:

Not available

BENTONITE:

LC50-83d-fish [mg/l]: Data not available.

48 h-EC50 Daphnia magna-[mg/l]: Data not available

CELLULOSE:

Ecotoxicity: no data available

### 12.2. Persistence and degradability

Related to contained substances:

POTASSIUM BICARBONATE:

Not available

CELLULOSE:

Abiotic degradation: n/a

Physical elimination and photo-chemical

Biodegradation: N/a

Potential biocumulative





Partition coefficient n-octane/water (log Ko/w): n/a  
Bioconcentration factor (BCF): n/a  
Long-term ecotoxicity: no data available

### 12.3. Bioaccumulative potential

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Related to contained substances:  
POTASSIUM BICARBONATE:  
Not available

### 12.4. Mobility in soil

=====  
Related to contained substances:  
POTASSIUM BICARBONATE:  
Not available  
CELLULOSE:  
Surface tension: n/a  
Absorption/Desorption: N/a

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. 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

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.

#### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code**

Transport in bulk is not foreseen

### **SECTION 15. Regulatory information**

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

Leg. 3/2/1997 n. 52 (Classification, packaging and labeling of dangerous substances). Decree No. 14/3/2003. 65 (Classification, packaging and labeling of dangerous substances). Leg. 2/2/2002 n. 25 (risks related to chemical agents at work). Ministerial Decree Jobs 26/02/2004 (occupational exposure limits); DM 04/03/2007 (Implementation of Directive no. 2006/8/EC). Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP), Regulation (EC) n.790/2009.D.Lgs. September 21, 2005 n. 238 (Seveso Directive Ter).

#### **15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

### **SECTION 16. Other information**

#### **16.1. Other information**

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC.

Directive 2001/60/EC.

Regulation 1272/2008/EC.

Regulation 2010/453/EC.

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 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.

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