

## SAFETY DATA SHEET CRISTALLINE PLUS

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1. Product identifier

Product name : Cristalline plus

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

Oenological use

#### 1.3. Details of the supplier of the safety data sheet

Company details: Institut Œnologique de Champagne  
Z.I. de Mardeuil – Allée de Cumières – BP 25  
51201 EPERNAY Cedex  
FRANCE  
Tel: + 33 (0) 3.26.51.96.00.  
Fax: + 33 (0) 3.26.51.02.20.  
[fds@ioc.eu.com](mailto:fds@ioc.eu.com)

#### 1.4. Emergency telephone number

112

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

2.1.1. Guidelines criteria 67/548 / EEC, 1999/45 / EC and subsequent amendments

Properties / Symbols: Xi Irritant

Phrases R:

R31 Contact with acids liberates toxic gas.

R37 Irritating to respiratory system.

R41 Risk of serious eye damage.

2.1.2. Criteria Regulation EC 1272/2008 (CLP)

Danger, Eye Dam. 1 Causes serious eye damage.

EUH031 Contact with acids liberates toxic gas.

Harmful physical and chemical effects on human health and the environment: No other hazards

#### 2.2. Label elements



Hazard statements:

H318 Causes serious eye damage.

Safety recommendations:

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if the victim does and if they can be easily removed. Continue rinsing.

P310 Call a POISON CENTER or physician.

Special Quality:

EUH031 Contact with acids liberates toxic gas.

Special provisions according to Annex XVII of REACH and its successive amendments:

Any

#### 2.3. Other hazards

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

#### 3.2. Mixtures

Potassium metabisulfite

N°CAS : 16731-55-8

N°EC : 240-795-3

N°REACH : 01-2119537422-45-

Citric acid

Synonyms: 2-hydroxy-1,2,3-propanetricarboxylic acid monohydrate

Brief Product description: Substance

Molecular formula: C6-H10-O8

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Dangerous ingredients: citric acid monohydrate

N° CAS: 5949-29-1

N°EC: 201-069-1

Classification: Xi; R36

GHS Classification: Eye Irrit. 2; H319

Concentration [%]: ≥ 99.8

### SECTION 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

General information: Remove contaminated clothing

If Inhalation: rest, fresh air, seek medical attention. After inhalation of decomposition products: Immediately inhale corticosteroid dose aerosol

If Skin contact: Rinse the area with water immediately - Call a physician if irritation persists.

If Eye Contact: Wash eyes immediately with water for 15 minutes holding the eyelids - Seek an ophthalmologist.

If Ingestion: Rinse mouth and drink plenty of water.

Information for the doctor: DANGER if swallowed Risk of sulfur dioxide formation by reaction with gastric acid.

#### 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

Advisors: water

#### 5.2. Special hazards arising from the substance or mixture

Do not inhale the gases produced by the explosion and combustion

#### 5.3. Advice for firefighters

No data available

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

If exposed to vapors / dust / aerosol, wear breathing apparatus.

Provide adequate ventilation.

Use appropriate respiratory protection.

Refer to protective measures outlined in Sections 7 and 8.

#### 6.2. Environmental precautions

Prevent penetration into the ground / basement.

Prevent discharge into surface waters or sewage system.

Retain contaminated washing water and dispose.

In case of gas leakage or seepage into waterways, soil or water drainage system, inform the responsible authorities.

Material suitable for the collection: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water

#### 6.4. Reference to other sections

See Section 13 for disposal of the substance

### SECTION 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes

Do not breathe dust. See also Section 8.

Use the localized ventilation system.

Do not use empty container before they have been cleaned.

Before the transfer operations, to ensure that the containers do not contain residual incompatible materials.

Contaminated clothing must be replaced before accessing the eating areas.

Do not eat and do not drink while working.

See also Section 8 for recommended protective equipment.

#### 7.2. Conditions for safe storage, including any incompatibilities

The product fears humidity. Store in a dry place.

Keep away from food, drink and animal feed.

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Incompatible materials:

Keep a distance away from acids.

Keep a distance away from oxidizing agents.

Indication for premises: properly ventilated premises.

### 7.3. Specific end use(s)

## SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1. Control parameters

No data available.

### 8.2. Exposure controls

Eye protection: Wear closed safety visors, do not use eye lens.

Skin protection: Wear clothes that guarantee total protection to the skin, eg. cotton, rubber, PVC or Viton.

Hand protection: Use protective gloves that guarantee total protection, eg. PVC, neoprene or rubber.

Respiratory protection: Where insufficient ventilation, where exposure is prolonged, use a respiratory protective device, eg. CEN / FFP-2 or CEN / FFP-3. Use a protective device appropriate respiratory, eg. CEN / FFP-2 or CEN / FFP-3.

Thermal hazards: No.

Environmental exposure controls: No.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance : Granular white Powder.

Odour : Slight

Odour threshold : No data available

pH : No data available

Melting / freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : No data available

Evaporation rate: No data available

Flammability (solid, gas) : No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure : No data available

Vapour density: No data available

Relative density: No data available

Solubility(ies): No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity : No data available

Explosive properties: No data available

Oxidising properties: No data available

### 9.2. Other information

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Product is stable in its sealed packaging, no particular conditions

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Oxidizing agents - acids

### 10.6. Hazardous decomposition products

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Toxic gas.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

No data available

### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Use the product is not released into the wild.

COD: 140 mg / g

Potassium metabisulfite - CAS: 16731-55-8

acute aquatic toxicity:

Final point: LC50 - Cash: Fish = 460-1000 mg / l - h Duration: 96

Final point: EC50 - Species: Bacteria = 65 mg / l - h Duration: 17

#### 12.2. Persistence and degradability

No data available.

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

No data available

#### 12.6. Other adverse effects

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Recover if possible.

Operate in accordance with local and national regulations.

### SECTION 14. TRANSPORT INFORMATION

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15. REGULATORY INFORMATION

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

Council Directive 67/548 / EEC (Classification, packaging and labeling of dangerous substances) and subsequent amendments. Council Directive 1999/45 / EC (Classification, packaging and labeling of dangerous substances) and subsequent amendments. Regulation (EC) No. 1272/2008 (CLP). Commission Directive 98/24 / EC (Protection of the health and safety of workers against the risks related to chemical agents). Commission Directive 2000/39 / EC (Occupational Exposure Limits). Regulation (EC) No. 1907/2006 (REACH).

Refer to the following standards where applicable: Directive 82/501 / EEC (activities related to the risk of serious accidents) and subsequent amendments. EC Regulation No 648/2004 (detergents), 1999/13 / EC (VOC directive)

Hazard determining component of labeling: potassium hydrogen.

#### 15.2. Chemical safety assessment

Not applicable.

### SECTION 16. OTHER INFORMATION



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Complete review of compliance with Regulation (EU) No 453/2010 of 20 May 2010

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