SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Mixture
Trade name: CASEINE SOLUBLE
Product group: Trade product
Other means of identification: E 501 (ii)

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

1.2.1. Relevant identified uses

Main use category: Professional use

Industrial/Professional use spec: For professional users only
Use of the substance/mixture: Casein-based preparation intended for the preventative or curative treatment of oxidation in musts and white/rose wines. Food solubilized casein (association of food acid casein and bicarbonate of potassium).

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer
LAFFORT FRANCE
P.O. Box CS 61611
33072 BORDEAUX CEDEX - FRANCE
T +33 (0)5 56 86 53 04 - F +33 (0)5 56 86 30 50
info@laffort.com - www.laffort.com

Distributor
LAFFORT CHILE
PARCELA 233, LOTE 2,
COLONIA KENNEDY, SECTOR HOSPITAL
9540000 PAINE - CHILE
T +56 22 225 23 61 - F +56 22 225 23 61
info@laffort.com - www.laffort.com

Distributor
LAFFORT ITALIA
S.P. PER CASTELNUOVO SCRIVIA S.N.C.
15057 TORTONA AL
T +39 0131 863 608 - F +39 0131 821 305
laffortitalia@laffort.com - www.laffort.com

Distributor
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7646 PAARL - SOUTH AFRICA
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5012 SOUTH AUSTRALIA - AUSTRALIA
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Distributor
LAFFORT ESPAÑA S.A.
TXIRRITA MALEO 12 APTDO 246
20100 RENTERIA (Guipuzcoa) - ESPAÑA
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info@laffort.com - www.laffort.com

Distributor
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4/B GREENWOODS CLOSE
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1000 AUCKLAND - NEW ZEALAND
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info@laffort.com - www.laffort.com

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LAFFORT USA
1460 CADER LANE
SUITE C
CA 94954 PETALUMA - USA
T +1 (707) 775 4530
laffortusa@laffort.com - www.laffortusa.com
### 1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>NSW Poisons Information Centre</td>
<td>The Children’s Hospital at Westmead Locked Bag 4001 NSW 2145 Westmead</td>
<td>13 11 26 +56 2 2 247 3600</td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>Ontario Poison Centre (OPC)</td>
<td>The Hospital for Sick Children 555 University Avenue ON M5G 1X8 Toronto</td>
<td>1-800-268-9017 (416) 813-5900</td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>BC Drug and Poison Information Centre (DPIC)</td>
<td>655 West 12th Avenue BC V5Z 4R4 Vancouver</td>
<td>1-800-567-8911 (604) 682-5050</td>
<td></td>
</tr>
<tr>
<td>China</td>
<td>National Poison Control Center</td>
<td>Chinese Center for Disease Control and Prevention Nanwei road, No.29 100050 Beijing</td>
<td>+86 10 831 32 046</td>
<td></td>
</tr>
<tr>
<td>Croatia</td>
<td>Centar za kontrolu otrovanja</td>
<td>Ksaverska Cesta 2 p.p. 291 10000 Zagreb</td>
<td>+385 1 234 8342</td>
<td></td>
</tr>
<tr>
<td>Czech Republic</td>
<td>Toxikologické informační středisko</td>
<td>Na Bojští 120 00 Praha 2</td>
<td>+420 224 919 293 +420 224 915 402</td>
<td></td>
</tr>
<tr>
<td>Georgia</td>
<td>National Toxicology Information Advisory Center</td>
<td>Tbilisi State Medical University Department of Toxicology - 7 Asatiani St. 380 077 Tbilisi</td>
<td>+995 99 533320</td>
<td></td>
</tr>
<tr>
<td>Greece</td>
<td>Poisons Information Centre</td>
<td>11762 Athens</td>
<td>+30 2 10 779 3777</td>
<td></td>
</tr>
<tr>
<td>Hungary</td>
<td>Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat</td>
<td>Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest</td>
<td>+36 80 20 11 99</td>
<td></td>
</tr>
<tr>
<td>Israel</td>
<td>Israel Poison Information Center</td>
<td>6 Ha'Aliya Street 31096 Haifa</td>
<td>+972 4 854 1900</td>
<td></td>
</tr>
<tr>
<td>Japan</td>
<td>Japan Poison Information Center</td>
<td>Tsukuba Medical Center 1-1-1 Amakubo 305-0005 Tsukuba City, Ibaraki</td>
<td>+81-29-856-3566 +81-72-727-2499</td>
<td></td>
</tr>
<tr>
<td>Malta</td>
<td>Medicines &amp; Poisons Info Office</td>
<td>Mater Dei Hospital MSD Msida</td>
<td>+356 2545 6504</td>
<td></td>
</tr>
<tr>
<td>New Zealand</td>
<td>National Poisons Centre</td>
<td>Dunedin School of Medicine, University of Otago PO Box 913 9054 Dunedin</td>
<td>0800 764 766 +56 2 2 247 3600</td>
<td></td>
</tr>
<tr>
<td>Poland</td>
<td>National Poisons Information Centre</td>
<td>ul. Teresy 8 P.O. BOX 199 90950 Łódź</td>
<td>+48 42 63 14 724</td>
<td></td>
</tr>
<tr>
<td>Romania</td>
<td>Department of Clinical Toxicology Spitalul de Urgenta Floreasca</td>
<td>Calea Floreasca Bucharest</td>
<td>+40 21 230 8000</td>
<td></td>
</tr>
</tbody>
</table>
Section 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements
According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

2.3. Other hazards
No additional information available

Section 3: Composition/information on ingredients

3.1. Substances
Not applicable
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

First-aid measures general: If symptoms persist call a doctor.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.

First-aid measures after skin contact: After contact with skin, wash immediately and thoroughly with water and soap. If symptoms persist, call a physician.

First-aid measures after eye contact: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects: More detailed information: See section 11.

Symptoms/effects after eye contact: May cause slight irritation.

Symptoms/effects after ingestion: Gastrointestinal complaints.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media: carbon dioxide (CO2), powder, alcohol-resistant foam, water spray.

Unsuitable extinguishing media: Do not use water jet.

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

Hazardous decomposition products in case of fire: Toxic fumes may be released. Carbon oxides (CO, CO2). Potassium oxides.

**5.3. Advice for firefighters**

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information: Do not contaminate ground and surface water. Dispose in a safe manner in accordance with local/national regulations.

**SECTION 6: Accidental release measures**

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

General measures: Evacuate personnel to a safe area.
CASEINE SOLUBLE
Safety Data Sheet
according to Regulation (EU) 2015/830

6.1.1. For non-emergency personnel
Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.
Measures in case of dust release : Avoid dust formation.

6.1.2. For emergency responders
Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions
Do not flush into surface water or sewer system.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up : Mechanically recover the product. Contain leaking substance, pump over in suitable containers. Clean contaminated surfaces with an excess of water.
Other information : Dispose of materials or solid residues at an authorized site. Do not allow to enter drains or water courses.

6.4. Reference to other sections
Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling : Avoid dust formation. Store tightly closed in a dry and cool place. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures : Keep only in the original container.
Storage conditions : Keep container tightly closed to prevent moisture pick-up. Store in a dry, cool place. Keep out of direct sunlight.
Incompatible materials : Do not mix with oxidizing agents.
Heat and ignition sources : Keep away from ignition sources (including static discharges).

7.3. Specific end use(s)
For œnological use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available
CASEINE SOLUBLE  
Safety Data Sheet  
according to Regulation (EU) 2015/830

8.2. Exposure controls

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

**Personal protective equipment:**
Refer to protective measures listed in Sections 7 and 8.

**Materials for protective clothing:**
Protective clothing

**Hand protection:**
Protective gloves

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Permeation</th>
<th>Thickness (mm)</th>
<th>Penetration</th>
<th>Standard</th>
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<tbody>
<tr>
<td>Chemically resistant protective gloves</td>
<td>Nitrile rubber (NBR)</td>
<td>6 (&gt; 480 minutes)</td>
<td>0.11</td>
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<td>EN 374</td>
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</tbody>
</table>

**Eye protection:**
Safety glasses

<table>
<thead>
<tr>
<th>Type</th>
<th>Use</th>
<th>Characteristics</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety glasses</td>
<td>Dust</td>
<td></td>
<td>EN 166</td>
</tr>
</tbody>
</table>

**Skin and body protection:**
Wear suitable protective clothing

**Respiratory protection:**
Wear suitable respiratory equipment in case of insufficient ventilation. EN 143

**Environmental exposure controls:**
Do not allow into drains or water courses. Avoid release to the environment.

**Other information:**
Do not eat, drink or smoke during work. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

- **Physical state:** Solid
- **Appearance:** Powder.
- **Colour:** White to off-white.
- **Odour:** No data available
- **Odour threshold:** No data available
- **pH:** No data available
- **Relative evaporation rate (butylacetate=1):** No data available
Melting point: 280 °C
Freezing point: Not applicable
Boiling point: No data available
Flash point: Not applicable
Auto-ignition temperature: Not applicable
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: Not applicable
Solubility: No data available
Log Pow: No data available
Viscosity, kinematic: Not applicable
Viscosity, dynamic: No data available
Explosive properties: Not explosive.
Oxidising properties: No data available
Explosive limits: Not applicable

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Heat. flames or sparks. Moisture.

10.5. Incompatible materials
Oxidation agents.

10.6. Hazardous decomposition products
See Heading 5.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : May be slightly irritating to skin and eyes
Acute toxicity (inhalation) : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin corrosion/irritation : May be slightly irritating to skin and eyes
Serious eye damage/irritation : May be slightly irritating to skin and eyes
Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological Information

12.1. Toxicity

Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Not classified

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
Other adverse effects : Do not allow to enter drains or water courses.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste treatment methods : Dispose of contents/container in accordance with licensed collector’s sorting instructions.
Product/Packaging disposal recommendations : Empty remaining contents. Dispose of contents/container in accordance with licensed collector’s sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR) : Not regulated
UN-No. (IMDG) : Not regulated
UN-No. (IATA) : Not regulated
UN-No. (ADN) : Not regulated
UN-No. (RID) : Not regulated

14.2. UN proper shipping name
Proper Shipping Name (ADR) : Not regulated
Proper Shipping Name (IMDG) : Not regulated
Proper Shipping Name (IATA) : Not regulated
Proper Shipping Name (ADN) : Not regulated
Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)
ADR
Transport hazard class(es) (ADR) : Not regulated

IMDG
Transport hazard class(es) (IMDG) : Not regulated

IATA
Transport hazard class(es) (IATA) : Not regulated

ADN
Transport hazard class(es) (ADN) : Not regulated

RID
Transport hazard class(es) (RID) : Not regulated
CASEINE SOLUBLE
Safety Data Sheet
according to Regulation (EU) 2015/830

14.4. Packing group

Packing group (ADR) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated
Packing group (ADN) : Not regulated
Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport
  Not regulated
- Transport by sea
  Not regulated
- Air transport
  Not regulated
- Inland waterway transport
  Not regulated
- Rail transport
  Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany
Reference to AwSV : Water hazard class (WGK) 3, severe hazard to waters (Classification according to AwSV, Annex 1)
CASEINE SOLUBLE
Safety Data Sheet

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other Information

Indication of changes:
Revision - See : *.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.