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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product form</th>
<th>Substance</th>
</tr>
</thead>
</table>

| EC-No.  | 215-753-2 |
| CAS-No. | 1401-55-4 |
| Type of product | For œnological use |
| Product group  | Trade product |

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 | Tannins used in winemaking.
Use of the substance/mixture | For œnological use

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

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 +622 247 3600</td>
<td></td>
</tr>
<tr>
<td>Country</td>
<td>Organisation/Company</td>
<td>Address</td>
<td>Emergency number</td>
<td>Comment</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
<td>-------------------------------------------------------</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 Institut za medicinska istraživanja i medicinu rada</td>
<td>Ksavarska 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 Klinika pracovního lékařství VFN a 1. LF UK</td>
<td>Na Bojiště 1 120 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 Children’s Hospital P&amp;A Kyriakou</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 Rambam Health Care Campus</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 The Nofer Institute of Occupational Medicine (Łódź)</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 Bucuresti</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

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mono-constituent</td>
<td>Tannins LAF</td>
<td>1401-55-4</td>
<td>215-753-2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tannins</td>
<td>(CAS-No.) 1401-55-4</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 215-753-2</td>
<td></td>
</tr>
</tbody>
</table>

3.2. Mixtures

Not applicable

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.

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

Fire hazard: In case of fire and/or explosion do not breathe fumes.

Safety Data Sheet

according to Regulation (EU) 2015/830

<table>
<thead>
<tr>
<th>Hazardous decomposition products in case of fire</th>
<th>Toxic fumes may be released. Carbon oxides (CO, CO2).</th>
</tr>
</thead>
</table>

### 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

**6.1.1. For non-emergency personnel**

- **Protective equipment:**
  - Wear recommended personal protective equipment.
- **Emergency procedures:**
  - No flames, no sparks. Eliminate all sources of ignition. Ventilate spillage area.
- **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.

#### 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:**

- Store tightly closed in a dry and cool place. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear recommended 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 in a well-ventilated room. Keep out of direct sunlight.

**Heat and ignition sources:**

- Keep away from ignition sources (including static discharges).

#### 7.3. Specific end use(s)

No additional information available
SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Exposure controls

Appropriate engineering controls:
Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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

Materials for protective clothing:
Protective clothing

Hand protection:
In case of excessive dust production. Wear protective gloves.

Eye protection:
No special eye protection equipment recommended under normal conditions of use. Where excessive dust may result, wear goggles

Skin and body protection:
Wear suitable protective clothing

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

<table>
<thead>
<tr>
<th>Device</th>
<th>Filter type</th>
<th>Condition</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust mask</td>
<td>Type P1, Type P2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Powder</td>
</tr>
<tr>
<td>Colour</td>
<td>light brown, dark brown</td>
</tr>
<tr>
<td>Odour</td>
<td>Product (article) characteristics.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>pH solution</td>
<td>2 - 6 20°C</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>200 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>198 °C Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>&gt; 500 Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.3 - 0.6 Not applicable</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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. Direct sunlight.

10.5. Incompatible materials
Strong acids, strong oxidants.

10.6. Hazardous decomposition products
Toxic fumes may be released. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological Information

11.1. Information on toxicological effects
Acute toxicity (oral) : May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

LD₅₀ oral rat > 2000 mg/kg
LD₅₀ oral > 5000 mg/kg

Tannins (1401-55-4)
LD₅₀ oral rat > 2000 mg/kg
LD₅₀ oral > 5000 mg/kg

Skin corrosion/irritation : Not classified

Safety Data Sheet
according to Regulation (EU) 2015/830

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>May cause eye-irritation of susceptible persons</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Repeated or prolonged contact may cause allergic reactions in very susceptible persons</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Not classified

12.2. Persistence and degradability

| Persistence and degradability | Biodegradable. No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended. |

Tannins (1401-55-4)

| Persistence and degradability | Biodegradable. No known adverse effects on the functioning of water treatment plants under normal use conditions as recommended. |
12.3. Bioaccumulative potential

| Tannins (1401-55-4) | Bioaccumulative potential | There is no bioaccumulation. |

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

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

No REACH Annex XVII restrictions

Other information, restriction and prohibition regulations
: For œnological use.

15.1.2. National regulations

Germany
Reference to AwSV
: Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV; ID No. 8178)

12th Ordinance Implementing the Federal Immission Control Act - 12.BlmSchV
: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijs van kankerverwekkende stoffen
: The substance is not listed

SZW-lijs van mutagene stoffen
: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding
: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid
: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling
: The substance is not listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Safety Data Sheet

according to Regulation (EU) 2015/830

**SECTION 16: Other Information**

<table>
<thead>
<tr>
<th>Indication of changes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision - See : *</td>
</tr>
</tbody>
</table>

*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.*