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| Page 1 of 4<br><br>Print Date 27.11.2018 | <b>Material Safety Data Sheet</b><br>according to Regulation (EC) No.<br>1907/2006 (REACH)<br><br>Tannin | <br>Revision Date 27.11.2018 |
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## 1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 2044**

· **Product name:**

**Tannin**  
 Tanninum, Acidum tannicum  
 Tannic acid

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH  
 Herderstr. 31  
 40721 Hilden  
 Tel.: 02103/4994-0  
 Fax: 02103/32360  
 e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz  
 Langenbeckstr. 1, 55131 Mainz  
 Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 2 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Warning

· **H-Phrases:**

H319 Causes serious eye irritation

· **P- Phrases:**

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes


**Eye Irrit. 2**

## 3 Composition / information on ingredients

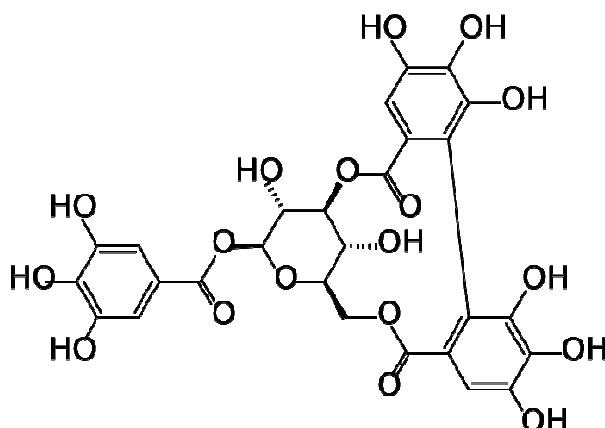
**CAS-No. Substance name**

1401-55-4 Tannic acid

· **EINECS-No.:** 215-753-2

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- **REACH Reg. No.:** 01-2120743029-56-0000
- **INCI-Name:** Tannic Acid
- **Chemical characterization:**



#### 4 First aid measures

- **General advices:** No special measures required.
- **after inhalation:** If irritations continue, seek medical advice.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

#### 5 Fire-fighting measures


- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible, but not flammable. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

#### 6 Accidental release measures

- **Personal protective measures:** Avoid contact with substance.
- **Environmental protective measures:** Do not release into drainage.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

#### 7 Handling and storage

- **Handling:** No special requirements.
- **Advice on safe handling:** No special measures required.

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- **Informations to fire or explosion protection:** Avoid dust formation during handling of big quantities.
- **Storage:**
- **Requirements for storage areas and containers:**  
Tightly closed. Store at a dry place. At room temperature ( +15°C to +25°C ).
- **Advices on common storage:** Not required.

## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:** The product should be handled according to the general laboratory guidelines.
- **Respiratory protection:** Dust protection mask
- **Hand protection:** Protection gloves of rubber or latex.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties


- **Form:** solid
- **Colour:** light yellow
- **Odour:** odourless
- **Melting point / melting range:** 218 °C (Decomposition)
- **Boiling point / boiling range:** not determined
- **Flash point:** 199 °C
- **Explosion hazard:** The product is not hazardous for explosion, but the explosion of dust-air mixtures is possible.
- **Density:** (20 °C) 0,44 g/cm<sup>3</sup>
- **Bulk density:** ca. 220 kg/m<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 250 g/l
- **pH-range:** (100 g/l, 20 °C) 3,5

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** On rapid heating irritant vapours can be released.

## 11 Toxicological information

- **Acute toxicity:**  
LD50 (mouse, oral): 2000 mg/kg  
LD50 (rat, oral): 2260 mg/kg  
LD50 (rabbit, oral): 5000 mg/kg
- **Primary irritant effect:**  
On skin: Not irritant  
On eyes: Irritant
- **Sensitization:** Not sensitizing

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## 12 Ecological information

- **Aquatic toxicity:**

Not acute harmful for water organisms.

Fish toxicity:

LC50 - Gambusia affinis 37 mg/l / 96 h

- **Water hazard class:** 2 (VwVwS): hazardous for water.

## 13 Disposal considerations

- **Product:**

- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.

- **Empty contaminated packaging:**

- **Recommendation:** Disposal according to the local regulations.

## 14 Transport informations

- **Land transport according to ADR:**

Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

- **Hazard symbols:** GHS07

- **Signal word:** Warning

- **H-Phrases:**

H319 Causes serious eye irritation

- **P- Phrases:**

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

- **National regulations (Germany):**

- **Water hazard class:** see chapter 12

- **Storage class TRGS 510:** 11

## 16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

- **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.