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		Revision nr : 12
	Date : 28 / 9 / 2011	
	Supersedes : 28 / 10 / 2008	
<b>Tannic acid-granular</b>		<b>L005</b>

### Definition

Polygalloylesters of glucose - quinic acid

### Synonyms

ALSOK  
BIOGRADE  
BREWTAN  
FLOCTAN  
PERMADUR  
TANAL  
TANEX  
Tannic acid  
Tannic acid-granular  
TEXTAN  
Omnicos QI

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Identification of the product : Tannic acid  
CAS nr :001401-55-4  
EC nr :215-753-2  
EC annex nr :---

REACH Registration n° : Not applicable.

Product code: : L005

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

\* **Use** : For professional use only. Food industry. Textile treatment. Pharmaceutical industry. Anti corrosion coatings. Restoration of reversed osmosis membranes. Inks. Modification of super absorbents.

**Use advised against** : None.

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

**Producer** : S.A.AJINOMOTO OMNICHEM N.V. - OMNICHEM DIVISION  
COOPPALLAAN 91  
B-9230 WETTEREN BELGIUM  
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### 1.4. Emergency telephone number

**Emergency phone nr** : +32 (0)9 365.33.33  
Accessible: 8h - 12h & 13h - 17 h CET/CEST

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

Classification conform EC 1272/2008 (CLP)

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## 2. Hazards identification (continued)

**Classification conform EC 1272/2008** : Not regulated.  
(CLP)

### Classification conform 67/548/EC (DSD) or EC 1999/45 (DPD)

- |   |   |
|---|---|
| <b>Main hazards</b>                                 | : May form flammable dust-air mixture. Ignition of a flammable product - air mixture by static discharge is possible  |
| * <b>Primary route of exposure</b>                  | : Skin and eyes contact. Ingestion. Inhalation.   |
| <b>Adverse human health effects</b>                 |   |
| <b>Inhalation</b>                                   | : No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of inhalation exposure.  |
| * <b>Skin contact</b>                               | : Not expected to present a significant acute skin hazard under anticipated conditions of normal use.<br>Overexposure may cause : A moderate skin irritation is possible.<br>Possible absorption if contact with damaged skin or inflammation of the skin.                |
| * <b>Eye contact</b>                                | : Not expected to present a significant acute eye contact hazard under anticipated conditions of normal use.<br>Unlikely to be a severe eye irritant. May cause minor eye irritation.   |
| * <b>Ingestion</b>                                  | : Not expected to present an acute significant ingestion hazard under anticipated conditions of normal use.<br>This material may be health hazardous if ingested in large quantities. Nausea. Gastric irritation. Indication of possible influence on the liver function. |
| * <b>Effects on long term and repeated exposure</b> | : No information available  |
| * <b>Fire and explosion hazards</b>                 | : Although no dust-explosion characteristics are known consider the product as possible dust-explosion hazard.  |

### 2.2. Label elements

#### Labelling conform EC 1272/2008 (CLP)

**Labelling conform EC 1272/2008 (CLP)** : Not regulated.

### 2.3. Other hazards

**Other dangers** : The ecotoxicological properties of this material have not been thoroughly investigated.

## 3. Composition/information on ingredients



This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS nr	EC nr	EC annex nr
Tannic acid	ca 100 %	1401-55-4	215-753-2	-----

## 4. First aid measures

### 4.1. Description of first aid measures

**First aid**

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#### 4. First aid measures (continued)

- Inhalation** : Remove victim to fresh air. Place the victim in semi-seated position. Allow the victim to rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention if breathing difficulty and/or other complaints appear.
- Skin contact** : Rinse immediately with plenty of water, for at least 15 minutes. Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water. Obtain medical attention if ill effect or irritation develops.
- Eye contact** : Rinse immediately with plenty of water, for at least 15 minutes. Obtain medical attention if pain, blinking, tears or redness persist.
- Ingestion** : DO NOT INDUCE VOMITING. Rinse mouth. If swallowed, give 1 pint of water if victim completely conscious/alert. Seek medical attention if ill effect develops.
- \* - **Emergency medical treatment** : Treat symptomatically.

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

See section 2: Hazards identification of this safety data sheet.

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

**Note to physician** : Treat symptomatically.

#### 5. Fire-fighting measures

##### **5.1. Extinguishing media**

**Extinguishing media**

- \* - **Suitable** : All extinguishing media can be used.
- \* - **Not to be used** : None.

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

**Special exposure hazards** : When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined. Under fire conditions, highly hazardous fumes will be present: CO & CO<sub>2</sub>.



##### **5.3. Advice for fire-fighters**

- Flammable class** : May form flammable dust-air mixture.
- \* **Flammability (solid, gas)** : No information available
- \* **Surrounding fires** : Use water spray or fog for cooling exposed containers. Apply water spray or fog to cool nearby equipment.
- \* **Protection against fire** : Use self-contained breathing apparatus (cfr. EN 137) and standard firefighting gear (cfr. EN 469) when in close proximity to fire. Avoid (reject) fire-fighting water to enter environment.
- \* **Special procedures** : Exercise caution when fighting any chemical fire.

#### 6. Accidental release measures

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

- \* **Personal precautions** : Avoid dust production. Evacuate and limit access. No smoking. Equip cleanup crew with proper protection.

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## 6. Accidental release measures (continued)

### Technical measures

#### 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters.

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

**After spillage and/or leakage** : Sweep or shovel spills into appropriate container for disposal. Dilute residues and flush.

#### 6.4. Reference to other sections

**Other sections** : See also section 8 of the SDS: Exposure controls/personal protection.  
See also section 13 of this safety data sheet: Disposal considerations.

## 7. Handling and storage

**General** : No naked lights. No smoking.

#### 7.1. Precautions for safe handling

**Prevention** : Handle the product in closed equipment and if possible under an inert atmosphere. Sufficient local or general ventilation. Earth the equipment and take enough time to remove the electrostatic charges. Do not use compressed air to handle the product.

**Handling** : Avoid all unnecessary exposure. Do not breathe dust. Ensure prompt removal from eyes, skin and clothing. Handle in accordance with good industrial hygiene and safety procedures. Keep away from food, drink and animal feeding stuffs. Wear suitable protective clothing.

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

**Storage** : May be stored at ambient temperature. Protect from low temperatures. Protect from high temperature. Store in dry, well-ventilated area. Keep container closed when not in use. Keep away from food, drink and animal feeding stuffs. Eliminate every possible source of ignition.

\* **Storage - away from** : Direct sunlight. Heat. Open flame. Sources of ignition. Sparks. Moisture.

**Suitable packaging** : The product is stored in UN certified packaging: a double PE liner, packed in a fibredrum (1G/X../S).

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

**Recommendations** : None.

## 8. Exposure controls/personal protection



#### 8.1. Control parameters

**Occupational Exposure Limits** : No information available

#### 8.2 Exposure controls

**Industrial hygiene** : Either local exhaust or general room ventilation is usually required. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Personal protection**

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## 8. Exposure controls/personal protection (continued)



- **Respiratory protection** : Where excessive dust may result, wear approved respirator mask.
- **Skin protection** : Wear a coverall type 5, specific for manipulation of solids (cfr. ISO 13982-1).
- **Eye protection** : Safety glasses.
- **Hand protection** : Wear suitable synthetic gloves (Category 3, Class 3) resistant to chemical penetration (cfr. EN 374).
- **Ingestion** : When using, do not eat, drink or smoke.
- **Others** : Wear suitable safety shoes (cfr. EN 345 S2).
- Recommended monitoring procedures** : No information available



## 9. Physical and chemical properties

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

- Physical state** : Powder.
- Molecular Formula** : Not applicable; the substance is a complex mixture.
- Molecular weight** : Not applicable.
- Colour** : Pale yellow.
- Odour** : Characteristic.
- pH value** : 2.5 to 4 (1 % m/V)
- Melting point [°C]** : ca 200 . Decomposes before melting point..
- Initial boiling point [°C]** : Not applicable.
- Flash point [°C]** : Not applicable.
- Evaporation rate (ether=1)** : Not applicable.
- Explosion limits - lower [%]** : No data available.
- Explosion limits - upper [%]** : No data available.
- Vapour pressure [mbar]** : Not applicable.
- Relative vapour density (air=1)** : No data available.
- Density [g/cm<sup>3</sup>]** : 0.3 to 0.5
- Soluble in:** : Ethanol.  
Acetone.  
Methyl alcohol.
- Solubility in water** : Good. (>= 50% m/V)
- Log P octanol / water at 20°C** : No data available.
- Auto-ignition temperature [°C]** : 470
- Viscosity at 20°C [mPa.s]** : Not applicable.

### 9.2. Other information

- Minimal ignition energy (mJ)** : No data available.

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## 9. Physical and chemical properties (continued)

Charge relaxation time (s)	: No data available.
ST class	: 1 Powder.
Kst value (bar.m /s)	: 158 Powder.
Maximum explosion pressure - 20 l sphere - (bar)	: 7.7 Powder.
Maximum rate of pressure rise - 20 l sphere - (bar/s)	: 582 Powder.

## 10. Stability and reactivity

### 10.1. Reactivity

- \* Reactivity : No information available
- \* Sensitivity to shock (Nm) - BAM Fallhammer : No information available
- \* Sensitivity to friction (N)- BAM friction apparatus : No information available

### 10.2. Chemical stability

- \* Stability : The product is stable if stored under the recommended storage conditions.
- \* Thermal decomposition-stable up to (°C): : 170 . Under normal atmospheric conditions.
- \* Pyrophoric properties : Not pyrophoric.
- \* Light stability : Under influence of light, the product may gradually darken.
- \* Gasevolving (>10 litre gas/kg below 220°C) : No information available
- \* Gasevolution possible starting at (°C) : No information available
- \* Exothermicity-lowest temperature (°C): 170 to 180 . Weak exothermic (DSC analysis).

### 10.3. Possibility of hazardous reactions

- Hazardous reactions : None under normal conditions.
- Hazardous properties : None under normal conditions.
- \* Hazardous Polymerization : Will not occur.

### 10.4. Conditions to avoid

Conditions to avoid : Moisture. Heat.

### 10.5. Incompatible materials

- \* Materials to avoid : Not known.

### 10.6. Hazardous decomposition products

- \* Thermal decomposition possible from (°C): : No information available
- Hazardous decomposition products : On exposure to high temperature, may decompose, releasing toxic gases. (CO & CO<sub>2</sub>).

## 11. Toxicological information

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## 11. Toxicological information (continued)

### 11.1. Information on toxicological effects

#### Toxicity information

##### Acute toxicity

- Inhalation : Not expected to present a significant acute inhalation hazard under anticipated conditions of normal use.
- Dermal : Not irritant.
- Ocular : Not irritant.
- Ingestion : Not expected to present an acute significant ingestion hazard under anticipated conditions of normal use.

##### - Other

LD50 rat oral [mg/kg] : 2260

LD50 mouse oral [mg/kg] : 5000

Dermal irritation (rabbit) : Not irritant.

Eyes irritation (rabbit) : Not irritant.

- \* Sensitization : No information available
- \* Genotoxicity : Not expected to be genotoxic.
- Mutagenicity : Not considered to be mutagenetic.
- Carcinogenicity : Not a cancer suspected agent in humans
- Reproductive toxicity : No evidence of reproductive properties.
- \* STOT-single exposure : No information available
- \* STOT-repeated exposure : No information available
- \* Chronic toxicity : No adverse health effects were noted.

## 12. Ecological information

#### Ecological effects information

##### 12.1. Toxicity

- \* On product : No quantitative data available.

##### 12.2. Persistence - degradability

Persistence and degradability : No information available

Impact on biodegradation : conc. 100 mg/l: 20% inhibition (NH<sub>3</sub> oxidat. by nitrosomonas sp.) conc. 50 mg/l: 7% inhibition (NH<sub>3</sub> oxidat. by nitrosomonas sp.)



- \* Biodegradation [%] : No quantitative data available.
- \* BOD : No information available
- \* COD : No information available
- \* Hydrolysis : No information available

##### 12.3. Bioaccumulative potential

Bioaccumulative potential : No information available

##### 12.4. Mobility in soil

- \* Mobility : No information available

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## 12. Ecological information (continued)

\* **Adsorption/desorption** : No information available

### 12.5. Results of PBT and vPvB assessment

\* **PBT and vPvB assessment** : No information available

### 12.6. Other adverse effects

\* **Adverse effects** : Not known.

**WGK class (Germany)** : 1

## 13. Disposal considerations

### 13.1. Waste treatment methods

**Disposal** : Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

## 14. Transport information

### • GENERAL INFORMATION

\* **General information** : Not regulated.  
The product is transported in UN-certified packaging: a double PE bac, packed in a fibredrum (1G/X../S).

## 15. Regulatory information

### 15.1 Safety, health & environmental regulations/legislations specific for the substance or mixture

#### Regulation EC 1907/2006 (REACH)

\* **Annex XIV - Substances subject to authorisation** : Not applicable.

\* **Annex XVII - Substances subject to restrictions** : Not applicable.

#### Other regulations

\* **European** : Not applicable.

\* **International** : Not applicable.



### 15.2 Chemical safety assessment

\* **Chemical safety assessment** : Not applicable.

## 16. Other information

**Revision** : \* Revision - Change compared to previous version.

\* **Legend to abbreviations and acronyms** : No information available

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#### 16. Other information (continued)

- \* **Sources for key data used** : None.
- \* **Full text of the hazard statements** : See section 2.2: Label elements.
- \* **Full text of the precautionary statements** : See section 2.2: Label elements.
- \* **Training advice** : None.
- \* **Recommended uses and restrictions** : See product bulletin for detailed information.

The contents and format of this SDS are in accordance with EC Commission Regulation N° 453/2010.

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