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		Revision nr : 11
	Date : 28/10/2008	
	Tannic acid-granular	Supersedes : 13/8/2007
L005 www.lisam.com		

Definition

Polygalloylesters of glucose - quinic acid

Synonyms

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

1. Identification of the product / Company identification

Product code: : L005
Identification of the product : Tannin.
Use : For professional use only. Food industry. Textile treatment. Pharmaceutical industry.
Producer : S.A.AJINOMOTO OMNICHEM N.V. - OMNICHEM DIVISION
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Emergency phone nr : +32 (0)9 365.33.33



2. Hazards identification

* Main hazards : May form flammable dust-air mixture. Ignition of a flammable product - air mixture by static discharge is possible
Primary route of exposure : Skin and eyes contact. Ingestion. Inhalation.
Symptoms relating to use
Inhalation : No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of inhalation exposure.
* Skin contact : Not expected to present a significant acute skin hazard under anticipated conditions of normal use.
Overexposure may cause : A moderate skin irritation is possible.
Possible absorption if contact with damaged skin or inflammation of the skin.
* Eye contact : Not expected to present a significant acute eye contact hazard under anticipated conditions of normal use.
Unlikely to be a severe eye irritant. May cause minor eye irritation.
Ingestion : Not expected to present an acute significant ingestion hazard under anticipated conditions of normal use.
This material may be health hazardous if ingested in large quantities. Nausea.
Gastric irritation. Indication of possible influence on the liver function.
Environment : The ecotoxicological properties of this material have not been thoroughly investigated.

3. 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	Symbol(s)	R-Phrase(s)
Tannic acid	: ca 100 %	1401-55-4 / 215-753-2 / ----		

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4. First aid measures

First aid	
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.
Note to physician	: Treat symptomatically.

5. Fire - fighting measures



Flammable class	: May form flammable dust-air mixture.
Extinguishing media	: All extinguishing media can be used.
Surrounding fires	: Use water spray or fog for cooling exposed containers.
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 & CO2.
Protection against fire	: Exercise caution when fighting any chemical fire. Use self-contained breathing apparatus (cfr. EN 137) and standard firefighting gear (cfr. EN 469) when in close proximity to fire.

6. Accidental release measures

Personal precautions	: Avoid dust production. Wear suitable protective clothing and gloves. See also section 8 of the SDS: Exposure controls/personal protection. Keep public away from danger area.
Environmental precautions	: Prevent entry to sewers and public waters.
After spillage and/or leakage	: Sweep or shovel spills into appropriate container for disposal. Dilute residues and flush.

7. Handling and storage

General	: No naked lights. No smoking.
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.
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.
Suitable packaging:	: The product is stored in UN certified packaging: a double PE liner, packed in a fibredrum (1G/X../S).
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.

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8. Exposure controls / personal protection



Personal protection



- Respiratory protection : Where excessive dust may result, wear approved respirator mask.
- Hand protection : Wear suitable synthetic gloves (Category 3, Class 3) resistant to chemical penetration (cfr. EN 374).
- Skin protection : Wear a coverall type 5, specific for manipulation of solids (cfr. ISO 13982-1).
- Eye protection : Safety glasses.
- Ingestion : When using, do not eat, drink or smoke.
- Others : Wear suitable safety shoes (cfr. EN 345 S2).
- 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.
- Occupational Exposure Limit-TWA-Belgium (ppm) : Not established.

9. Physical and chemical properties

- Physical state : Powder.
- Colour : Pale yellow.
- Odour : Characteristic.
- Molecular Formula : Not applicable; the substance is a complex mixture.
- Molecular weight : Not applicable.
- Melting point [°C] : ca 200 . Decomposes before melting point..
- Initial boiling point [°C] : Not applicable.
- Density [g/cm³] : 0.3 to 0.5
- Vapour pressure [mbar] : Not applicable.
- Relative vapour density (air=1) : No data available.
- Viscosity at 20°C [mPa.s] : Not applicable.
- Solubility in water : Good. (<= 50% weight/volume)
- Soluble in: : Ethanol.
Acetone.
Methyl alcohol.
- pH value : 2.5 to 4 (1 % weight/volume)
- Flash point [°C] : Not applicable.
- Auto-ignition temperature [°C] : 470
- Minimal ignition energy (mJ) : No data available.
- Explosion limits - lower [%] : No data available.
- Explosion limits - upper [%] : No data available.
- Charge relaxation time (s) : No data available.
- ST class : 1 Powder.
- Kst value (bar.m /s) : 158 Powder.
- Maximum rate of pressure rise - 20 l sphere - (bar/s) : 582 Powder.
- Maximum explosion pressure - 20 l sphere - (bar) : 7.7 Powder.
- Log P octanol / water at 20°C : No data available.
- Evaporation rate (ether=1) : Not applicable.

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10. Stability and reactivity

Hazardous decomposition products	: On exposure to high temperature, may decompose, releasing toxic gases. (CO & CO ₂).
Hazardous reactions	: None under normal conditions.
Hazardous properties	: None under normal conditions.
Conditions to avoid	: Moisture. Heat.

11. Toxicological information

Toxicity information	
Acute - Inhalation	: Not expected to present a significant acute inhalation hazard under anticipated conditions of normal use.
Acute - Dermal	: Not irritant.
Acute - Ocular	: Not irritant.
Acute - Ingestion	: Not expected to present an acute significant ingestion hazard under anticipated conditions of normal use.
Dermal irritation (rabbit)	: Not irritant.
Eyes irritation (rabbit)	: Not irritant.
LD50 mouse oral [mg/kg]	: 5000
LD50 rat oral [mg/kg]	: 2260
Carcinogenicity	: Not a cancer suspected agent in humans
Mutagenicity	: Not considered to be mutagenetic.
Reproductive toxicity	: No evidence of reproductive properties.

12. Ecological information

Ecological effects information	
Impact on biodegradation	: conc. 100 mg/l: 20% inhibition (NH ₃ oxidat. by nitrosomonas sp.) conc. 50 mg/l: 7% inhibition (NH ₃ oxidat. by nitrosomonas sp.)
Persistence and degradability	: No data available.
Bioaccumulative potential	: No data available.
WGK class (Germany)	: 1

13. Disposal considerations



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.
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14. Transport information

General information	: The product is transported in UN-certified packaging: a double PE bac, packed in a fibredrum (1G/X../S).
Proper shipping name	: Not regulated.
UN No.	: -
No naked lights. No smoking.	

15. Regulatory information

* Symbol(s)	: None.
* R Phrase(s)	: None.
* S Phrase(s)	: None.

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16. Other information

Recommended uses and restrictions : See product bulletin for detailed information.
Further information : * Revision - Change compared to previous version.

The contents and format of this SDS are in accordance with EC Regulation No 1907/2006.

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