

SAFETY DATA SHEET

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Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

MATERIAL SAFETY DATA SHEET

Trade Name: Gellan Gum

1. IDENTIFICATION OF SUBSTANCE / PREPARATION & OF SUPPLIER

- 1.1 Product: Gellan Gum
- 1.2 Supplier: Deffner & Johann GmbH
Mühläckerstr. 13
97520 Rötthlein
- 1.3 Emergency Phone No.: +49-9723-9350-0
- 1.4 Information Monday –Friday 09:00 – 15:00,

2. COMPOSITION – INFORMATION OF INGREDIENTS

- 2.1 Chemical characterisation of the substance: Gellan Gum
- 2.2 Food use: E 418
- 2.3 CAS-No.: 71010-52-1
- 2.4 Chemical Name: Not available

3. COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1 Ingredients: Gellan Gum
- 3.2 Appearance: White to yellowish powder, free flowing, soluble in water

4. FIRST AID PROCEDURES

- 4.1 General advice: Change contaminated clothes
- 4.2 Eye contact: Rinse copiously with plenty of fresh water
- 4.3 Skin contact: Wash contact area with water and soap
- 4.4 Inhalation: Seek plenty of fresh air
- 4.5 Ingestion: First aid is not necessary
- 4.6 Note to Physician: Not applicable

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5. FIRE FIGHTING MEASURES

- 5.1 Flammability: May be combustible at high temperatures
- 5.2 Extinguishing Media: foam, carbon dioxide for large fires,
dry powder for small fires
Do not use water jet!
- 5.3 Fire Fighting Procedures: Fire fighters should wear full fire-fighting turn-out gear
(full Bunker gear) including NIOSH-approved self-contained
breathing apparatus with full facepi
- 5.4 Dangerous Combustion Gases: Carbon Oxides

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Protection: Not applicable
- 6.2 Cleaning Methods: For larger quantities apply the usual methods to clean
up dry powdered or granulated material : vacuum clean,
sweep or mop up. Use a shovel to put the material into a
convenient waste disposal container. Finish cleaning by spreading
water on the contaminated surface and allow to evacuate through
the sanitary system.
Small quantities may be flushed away with water.
Use appropriate tools to put the spilled solid in a convenient waste
disposal container.
- 6.3 Attention! Material is slippery when wet!

7. HANDLING AND STORAGE

- 7.1.1 Safe Handling: Avoid direct contact with eyes or skin. Observe good house-
keeping regulations - working space should be designed for easy
cleaning at any time, and well ventilated. Do not handle ore store
near open flame, heat or other sources
- 7.1.2 Advice On Protection
Against Fire Or Explosion: DO NOT SMOKE!
- 7.2 Storage: Store in a dry, cool (not above 25°C), hygienic area;
store in sealed original containers
- 7.2.1 Requirements: Regulations for the storage of combustible solids are to be
observed: Keep away from ignition source.
- 7.2.2 Stability: Shelf Life: 2 years

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- | | | |
|-------|-------------------------|--|
| 8.1 | Limitation of Exposure: | No special precautions necessary |
| 8.2 | Industrial Hygiene: | Observe general considerations of hygiene: do not eat, drink, smoke or take drugs at work! Observe general considerations of safety and hygiene for handling of chemical substances. |
| 8.2.1 | Respiratory Protection: | Dust mask |
| 8.2.2 | Protection of Hands: | Use generally acknowledged quality gloves |
| 8.2.3 | Protection of Eyes: | Use chemical-type goggles with side protection |
| 8.2.4 | Protection of Body: | Wear appropriate working clothes |

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | |
|-------|---|---------------------------------|
| 9.1 | General Information | |
| 9.1.1 | Form: | Powder |
| 9.1.2 | Colour: | White to yellowish |
| 9.1.3 | Odour: | Slight, typical |
| 9.2 | Data Relevant to Safety - Changes in Physical State | |
| 9.2.1 | Melting Point: | Not available |
| 9.2.2 | Boiling Point: | Not available |
| 9.2.3 | Flash Point: | Not available |
| 9.2.4 | Density: | Not available |
| 9.2.5 | Vapor Pressure: | Not available |
| 9.3 | Further Data | |
| 9.3.1 | Solubility: | Partially soluble in cold water |
| 9.3.2 | pH: | ~ 7 |
| 9.3.3 | Viscosity: | Not applicable |

10. STABILITY AND REACTIVITY

- | | | |
|------|------------------------------------|---|
| 10.1 | Hazardous Polymerization: | The product is stable under normal conditions |
| 10.2 | Thermal Disintegration: | Carbon monoxide and carbon dioxide |
| 10.3 | Conditions to avoid: | No risk if used for specified purpose |
| 10.4 | Materials to avoid: | Strong oxidising agents |
| 10.5 | Hazardous de-composition Products: | Not known at the time |

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11. TOXICOLOGICAL INFORMATION

- 11.1 Information on Toxicological Effects:
Acute Toxicity/Irritating Effects/Sensitisation: Value/Validation
Irritation of Skin: slightly irritating
Irritation of Eye: slightly irritating
- 11.2 Further Data: Not available at the time

12. ECOLOGICAL INFORMATION

- 12.1 Eco-Toxicity: No data available
12.2 Further Information: No further data available at the time

13. DISPOSAL CONSIDERATIONS

- 13.1 Product: Greater quantities have to be disposed of according to all applicable local, state and federal laws, rules, regulations and standards. No specific methods are suggested.
- 13.2 Further Information: The product/preparation contains following organically bound elements: C, H, O,
- 13.3 Empty Packages: Completely empty packages can be cleaned and used again or recycled according to local directives (same as the product), or may be disposed of by burning.

14. TRANSPORT INFORMATION

- 14.1 Classification
- 14.1.1 DOT Classification: Not a DOT controlled material.
- 14.1.2 Identification: Not applicable.
- 14.2 Special Provisions: Not applicable
- 14.3 Air Transport IATA: Refer to corresponding hazard class

15. REGULATORY INFORMATION

According to European standards, the product is not classified as hazardous, and as such not subject to obligation of labelling in the sense of current EC – regulations. However, it is the users responsibility to observe all local, federal, state or international legislation and regulations.

16. FURTHER INFORMATION

None