

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

**Product name**

Guar Gum, Cationic

**Product code**

[AL00239]

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

**Relevant identified uses**

Raw material for cosmetic products.

**Uses advised against**

No information.

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

**Supplier**

Farmadria DOO  
Heroja Pinkija 44  
26300 Vršac, Serbia  
+381695565029  
info@avenalab.com

#### 1.4 Emergency Telephone Number

**Emergency**

111

**Supplier**

+381695565029

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

Aquatic Acute 1; H400 Very toxic to aquatic life.

Aquatic Chronic 1; H410 Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0



**Signal word: WARNING**

H410 Very toxic to aquatic life with long lasting effects.

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with national regulation.

### 2.3 Other hazards

**PBT/vPvB**

No information.

**Endocrine disrupting properties**

The product does not contain substances with the potential for endocrine disorders.

**Additional information**

No information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

For mixtures see 3.2.

### 3.2 Mixtures

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Guar Hydroxypropyltrim onium Chloride	65497-29-2 613-809-4 -	80- 90	Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/	/
Water	7732-18-5 231-791-2 -	10- 15	/	/	/
Sodium chloride	7647-14-5 231-598-3 -	1-3	/	/	/

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

##### Following inhalation

Remove patient to fresh air - move out of dangerous area. Obtain professional medical help!

##### Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention.

##### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

##### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Consult a physician. Show the physician the safety data sheet or label.

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

##### Following inhalation

No information.

##### Following skin contact

Contact with skin may cause irritation (redness, itching).

##### Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

##### Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

#### 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. Dry chemical powder. Water spray. Alcohol resistant foam.

##### Unsuitable extinguishing media

Full water jet.

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0

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

#### **Hazardous combustion products**

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

### 5.3 Advice for firefighters

#### **Protective actions**

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

#### **Special protective equipment for fire-fighters**

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

#### **Additional information**

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### **For non-emergency personnel**

##### **Protective equipment**

No information.

##### **Precautionary measures**

Ensure adequate ventilation.

##### **Emergency procedures**

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

##### **For emergency responders**

Use personal protective equipment.

### 6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

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

#### **For containment**

No information.

#### **For cleaning up**

Prevent release into the sewer, water, basements or confined areas. Clean contaminated area with plenty of water.

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0

### Other information

No information.

6.4 Reference to other sections  
See also sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Protective measures

#### Measures to prevent fire

Ensure adequate ventilation.

#### Measures to prevent aerosol and dust generation

Prevent dust formation.

#### Measures to protect the environment

Avoid release to the environment.

#### Other measures

No information.

#### Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

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

#### Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

#### Packaging materials

Store only in original container.

#### Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

#### Storage temperature

No information.

#### Storage class

No information.

#### Further information on storage conditions

No information.

### 7.3 Specific end use(s)

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name:** Guar Gum, Cationic

**Creation date:** 23.02.2025, **Revision:** 23.02.2025, **Version:** 1.0

### Recommendations

No information.

### Industrial sector specific solutions

No information.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure limit values

No information.

#### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

#### DNEL/DMEL values

##### For product

No information.

##### For components

Name	Type	Exposure route	exp. frequency	Remark	Value
Sodium chloride	Worker	dermal	short term systemic effects	/	295.52 mg/kg
Sodium chloride	Worker	inhalation	short term systemic effects	/	2068.62 mg/m <sup>3</sup>
Sodium chloride	Worker	dermal	long term systemic effects	/	295.52 mg/kg
Sodium chloride	Worker	inhalation	long term systemic effects	/	2068.62 mg/m <sup>3</sup>
Sodium chloride	Consumer	dermal	short term systemic effects	/	126.65 mg/kg
Sodium chloride	Consumer	inhalation	short term systemic effects	/	443.28 mg/m <sup>3</sup>
Sodium chloride	Consumer	oral	short term systemic effects	/	126.65 mg/kg
Sodium chloride	Consumer	dermal	long term systemic effects	/	126.65 mg/kg
Sodium chloride	Consumer	inhalation	long term systemic effects	/	443.28 mg/m <sup>3</sup>
Sodium chloride	Consumer	oral	long term systemic effects	/	126.65 mg/kg

#### PNEC values

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name:** Guar Gum, Cationic

**Creation date:** 23.02.2025, **Revision:** 23.02.2025, **Version:** 1.0

### For product

No information.

### For components

Name	Exposure route	Remark	Value
Sodium chloride	fresh water	/	5 mg/L
Sodium chloride	marine water	/	19 mg/L
Sodium chloride	soil	/	4.86 mg/kg

### 8.2 Exposure controls

#### Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe dust.

#### Structural measures to prevent exposure

No information.

#### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

#### Personal protective equipment

##### Eye and face protection

Tight fitting protective goggles (EN 166).

##### Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

#### Appropriate materials

##### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

##### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Mask with dust filter (P2) or FFP2 (EN 149:2001+A1:2009).

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name:** Guar Gum, Cationic

**Creation date:** 23.02.2025, **Revision:** 23.02.2025, **Version:** 1.0

**Thermal hazards**

No information.

**Environmental exposure controls**

**Substance/mixture related measures to prevent exposure**

No information.

**Instruction measures to prevent exposure**

No information.

**Organisational measures to prevent exposure**

No information.

**Technical measures to prevent exposure**

Do not allow product to reach drains, sewage systems or ground water.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

**Important health, safety and environmental information**

Physical state	solid
Shape	powder
Colour	light yellow
Odour	No information.
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	6 — 7
Viscosity (dynamic)	3 — 4 cps

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name:** Guar Gum, Cationic

**Creation date:** 23.02.2025, **Revision:** 23.02.2025, **Version:** 1.0

Solubility (Water)	Soluble
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Density / weight	No information.
Relative vapour/gas density	No information.
Particle characteristics	No information.

### 9.2 Other information

**Information with regard to physical hazard classes**

No information.

**Other safety characteristics**

No information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No information.

### 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3 Possibility of hazardous reactions

No information.

### 10.4 Conditions to avoid

Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces Avoid contact with incompatible materials and condition.

### 10.5 Incompatible materials

Moisture.

### 10.6 Hazardous decomposition products

May emit flammable vapour if involved in fire.

## SECTION 11: TOXICOLOGICAL INFORMATION

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### (a) Acute toxicity

##### For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
Water	oral	LD <sub>50</sub>	rat	/	> 90 ml/kg	/	/
Sodium chloride	oral	LD <sub>50</sub>	rat	/	3550 mg/kg	/	/
Sodium chloride	dermal	LD <sub>50</sub>	rat	/	> 10000 mg/kg	/	/
Sodium chloride	inhalation	LC <sub>50</sub>	rat	/	> 42 mg/l	/	/

#### Additional information

The product is not classified as acutely toxic.

#### (b) Skin corrosion/irritation

No information.

#### Additional information

The product is not classified as irritating to skin and eyes.

#### (c) Serious eye damage/irritation

No information.

#### (d) Respiratory or skin sensitisation

No information.

#### Additional information

The product is not classified as sensitising.

#### (e) (Germ cell) mutagenicity

No information.

#### (f) Carcinogenicity

No information.

#### (g) Reproductive toxicity

No information.

#### Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

#### (h) STOT-single exposure

No information.

#### Additional information

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0

STOT SE (single exposure): Not classified.

**(i) STOT-repeated exposure**

No information.

**Additional information**

STOT RE (repeated exposure): Not classified.

**(j) Aspiration hazard**

No information.

**Symptoms related to the physical, chemical and toxicological characteristics**

No information.

**Interactive effects**

No information.

11.2 Information on other hazards

**Endocrine disrupting properties**

The product does not contain substances with the potential for endocrine disorders.

**Other information**

No information.

## SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

**Acute (short-term) toxicity**

**For components**

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
Sodium chloride	LC <sub>50</sub>	5840 mg/L	96 h	fish	/	/	/
Sodium chloride	EC <sub>50</sub>	1016 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	/
Sodium chloride	EC <sub>50</sub>	2430 mg/L	120 h	algae	/	/	/

**Chronic (long-term) toxicity**

No information.

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0

### 12.2 Persistence and degradability

#### Abiotic degradation, physical- and photo-chemical elimination

No information.

#### Biodegradation

No information.

### 12.3 Bioaccumulative potential

#### Partition coefficient n-octanol/water (log value)

No information.

#### Bioconcentration factor (BCF)

No information.

### 12.4 Mobility in soil

#### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

No information.

#### Adsorption/Desorption

No information.

### 12.5 Results of PBT and vPvB assessment

No evaluation.

### 12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

### 12.7 Other adverse effects

No information.

### 12.8 Additional information

#### For product

Very toxic to aquatic organisms. Avoid release to the environment.

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0

### 13.1 Waste treatment methods

#### Product / Packaging disposal

##### Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

##### Waste codes / waste designations according to LoW

No information.

##### Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

##### Waste codes / waste designations according to LoW

No information.

##### Waste treatment-relevant information

No information.

##### Sewage disposal-relevant information

No information.

##### Other disposal recommendations

No information.

## SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
14.2 UN proper shipping name			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.3 Transport hazard class(es)			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

**Product name:** Guar Gum, Cationic

**Creation date:** 23.02.2025, **Revision:** 23.02.2025, **Version:** 1.0

ADR/RID	IMDG	IATA	ADN
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			
	Not given/not applicable		

### SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
  - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

**Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)**

not applicable

**Ingredients according to Regulation (EC) No 648/2004 on detergents**

No information.

**Special instructions**

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### SECTION 16: OTHER INFORMATION

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0

### Indication of changes

No information.

### Key literature references and sources for data

No information.

### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Guar Gum, Cationic

Creation date: 23.02.2025, Revision: 23.02.2025, Version: 1.0

MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

### List of relevant H phrases

H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.