

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

GUAR QUAT

1. Identification of the substance/mixture and company

Trade name: Guar Quat
I.N.C.I. Guar Hydroxypropyltrimonium Chloride
Utilization: Raw material, ingredient for shampoo, bath gel, facial cleanser, liquid soap, cream, lotion, hand wash.
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.ellemental.com
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

According to Regulation 1272/2008

Hazard classes/Hazard categories

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Label elements

Warning:



Hazard Statement: H410

Precautionary statement P273, P391, P501

The substance is not considered a PBT/vPvB

3. Declaration of ingredients

Guar Hydroxypropyl trimonium Chloride

CAS No. - 65497-29-2

Concentration: 100%

4. First aid measures

General advice:

If adverse health effects develop seek medical attention.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Do not rub eyes; mechanical action may cause corneal damage. If adverse health effects develop seek medical attention.

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If swallowed:

Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention.

Most important symptoms and effects, both acute and delayed

The product is not classified as harmful to human health effect

Indication of any immediate medical attention and special treatment needed

If skin irritation or rash occurs, get medical advice.

5. Fire fighting measures

Extinguishing media

Suitable extinguishing media:

Dry chemical, Sandy Soil, Carbon dioxide foam.

Unsuitable extinguishing media for safety reasons:
not available

Special hazards arising from the substance or mixture

Risk of dust explosion. Under fire conditions, toxic and irritating fumes may be emitted

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of.

Avoid raising dust. Dispose of absorbed material in accordance with regulations.

7. Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

In water resistant materials

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8. Exposure controls / personal protection

Advice on system design:

Ensure adequate ventilation.

Personal protective equipment

Respiratory protection:

Nuisance dust mask if use causes dusting.

Respiratory protection required.

Hand protection:

Plastic gloves, Rubber gloves

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form: pure and fine powder

Odour: weak odor

Odour threshold: not applicable

Colour: yellowish

pH value: 6 to 7 at 1 wt/wt%

melting range: 180°C

Decomposition: yes

Flash point: Not applicable solid for which the melting point is > 100°C

Flammability: not flammable

Flammability of Aerosol Products: not available

Lower explosion limit: not available

Upper explosion limit: not available

Evaporation rate: not available

Autoignition: not available

Vapour density: not available

Bulk Density (kg/m³): ca. 750 kg/m³

Solubility in water: slightly soluble in water

Oxidising properties: Not considered as oxidizing

Molecular weight: Not available

Other Information:

No further information available.

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10. Stability and reactivity

Reactivity

The substance is stable under normal storage and handling conditions

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No dangerous reactions known

Conditions to avoid

Incompatible materials. Protect from moisture. Dust generation

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Thermal decomposition may produce carbon monoxide, carbon dioxide, hydrogen chloride gas, nitrogen oxides.

11. Toxicological information

Acute toxicity:

LD50 (Oral, Rat): >20000mg/kg

LD50 (Dermal, Rabbit): not available

LC50 (Inhalation, Rat): not available

Oral not classified

Inhalation No applicable information available.

Dermal not classified

Irritation / corrosion not classified

Skin not classified

Eye not classified

Sensitization not classified

Aspiration Hazard not classified

Genetic toxicity not classified

Carcinogenicity not classified

Reproductive toxicity not classified

Teratogenicity not classified

12. Ecological information

Toxicity

Acute toxicity	Time	Species	Method	Evaluation	Remarks
LC50	0.44mg/l	96h	Fish (oncorhynchus mykiss (rainbow trout))	OECD 203	N/A

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LC50	1.39mg/l	96h	Fish (Lepomis macrochirus) (Bluegil sunfish)	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability

Partially biodegradable

Bioaccumulative potential

not bioaccumulate.

Mobility in soil

Product adsorbs onto suspended material and dissolved organic material

Other adverse effects:

Toxic to aquatic life long lasting effects

13. Disposal considerations

Waste treatment methods:

Due to the high risk of contamination recycling/recovery is not recommended. Waste disposal in accordance with regulations (controlled incineration)

14. Transport information

Land transport

ADR/RID

UN-Number: 3077

Environmentally Hazardous Substance, Solid, N.O.S. (Guar hydroxypropyl trimonium chloride)

Transport Hazard class: 9

IBC08

Sea transport

IMDG

UN-Number: 3077

Environmentally Hazardous Substance, Solid, N.O.S. (Guar hydroxypropyl trimonium chloride)

Transport Hazard class: 9

IBC08

Air transport

ICAO/IATA

UN-Number: 3077

Environmentally Hazardous Substance, Solid, N.O.S. (Guar hydroxypropyl trimonium chloride)

Transport Hazard class: 9

IBC08

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable

Relevant information regarding restriction: Not applicable

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

16. Additional information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Aquatic Chronic Hazardous to the aquatic environment - chronic

H412 Harmful to aquatic life with long lasting effects.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.