

CATIONIC GUAR GUM

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: cationic guar gum
INCI Name: guar hydroxypropyltrimonium chloride
Chem. N.: 2-hydroxy-3-(trimethylammonio)propyl ether chloride
CAS Number: 65497-29-2
EINECS Number:
Origin: natural, modified

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: not applicable
Boiling Point: not applicable
Vapor Density, Air= 1: not applicable
Vapor Pressure: not applicable
Viscosity: > 2400 mPa.s (1% solution)
Solubility in water: soluble
pH Value: 9.5 - 11 (1% solution)
Appearance & Odor: yellowish powder, no odor

3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions
Incompatibility: a mixture of air and finely-divided powder is potentially explosive. Incompatible with strong acids and oxidizers
Hazardous Decomposition: biodegradable; burning can produce carbon monoxide and carbon dioxide

4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Do not breath dust. Use NIOSH/OSHA-approved respiratory protective equipment.
Protective Clothing: Gloves recommended to prevent prolonged skin contact. Safety glasses, goggles, or face shield recommended for eye protection.
Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

7. HAZARDS IDENTIFICATION

General: do not breath dust.
Inhalation: Most probable route of entry. No specific hazards known to the respiratory system.

Eye Contact: not regarded as irritant to eyes
Skin Contact: not regarded as irritant to skin; no known effects from chronic exposure
Ingestion: may be irritant to gastrointestinal tract. Seek medical attention.

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 20 minutes. Seek medical attention if symptoms persist.
Skin: Wash exposed areas of the body with plenty of water.
Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion: Drink water. Do not induce vomiting. Consult medical personnel. Never give anything by mouth to an unconscious person.

9. FIRE FIGHTING MEASURES

Flash Point: non-flammable
Extinguishing Media: water spray, foam, carbon dioxide
Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

10. TOXICOLOGICAL INFORMATION

Acute LD50: > 2000 mg/kg (rat, oral)
Dermal and Eye Irritation Test: not adsorption by skin
Carcinogenicity: not data available
Mutagenicity: not data available

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

12. TRANSPORT INFORMATION

General Information: not regarded as hazardous material
DOT Shipping Name: Refer to corresponding hazard class
ADR/ R I C Code: Refer to corresponding hazard class
Sea Transport IMDG Code: Refer to corresponding hazard class
Air Transport IATA: Refer to corresponding hazard class

13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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