

TECHNICAL DATA SHEET

GLDA-QUEST 47%

INCI Tetrasodium Glutamate Diacetate

CAS 51981-21-6



SPECIFICATIONS

Appearance	Light yellow liquid
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GENERAL INFORMATION

GLDA-QUEST 47% is a chelating agent produced from a naturally occurring amino acid.

It is readily biodegradable with a high level of solubility over a wide pH range and is thus a greener alternative to many other chelates.

GLDA-QUEST 47% is a powerful chelating agent and preservative-booster made from natural, biodegradable, renewable raw materials.

It can be used as a more sustainable alternative to phosphonates and commonly used chelating agents (NTA and Ethylenediaminetetraacetic acid (EDTA) in a wide number of applications.

Its dispersion properties combined with easier rinsing support the GLDA-QUEST 47% find its place in modern wash-off formulations, as well as in wipes and shaving products.

FORMULATION AND RECOMMENDATIONS

GLDA-QUEST 47% can be used to replace EDTA in a 1:1 ratio in many applications and products. It also does not sensitize human skin and provides enhanced biocidal/preservative boosting power when compared to commonly used boosters such as EDTA.

It is suitable to for use in personal care and cosmetics products, and due to the strong chelating ability of calcium and transition metal ions, it can

prolong the shelf life of many products, as well as stabilize and prevent them from discoloration.

Recommended concentration

0.1 – 0.5%

Solubility

Completely soluble in water at all proportions. We suggest adding at the end of formulation or to the aqueous phase.

EFFICACY

GLDA-QUEST 47% is not considered a preservative itself but can act as a preservative booster in many preservative systems.

BENEFITS

- Readily biodegradable
- Clear, liquid, multipurpose, easy to use
- EDTA free / non-hazardous / non-toxic
- Compatible with organic formulations

APPLICATIONS

Fragrances
Pharmaceuticals
Natural extracts

Cosmetics

- Skin care
- Hair care
- Oral care
- Makeup
- Toiletries
- Baby care
- Sun care

SHELF LIFE

12 months under proper storage conditions