

Stabilization

SIHA[®] Gum Arabic Liquid

SIHA Gum Arabic Liquid stabilizer is a 30% liquid gum arabic produced from high-quality Arabic rubber. It consists mainly of polysaccharides and is traditionally used as a protective colloid against copper or iron turbidities in combination with citric acid (0.03 – 0.04 lb/1,000 gal (0.3 – 0.5 g/hl)) and increases the “mouth-feel” of the wine.

Application

The colloidal substances present in wine are polysaccharides, polypeptides and polyphenols. The arabinogalactan fraction of the gum arabic forms a film around these particles. The negative load (in the same direction) of all particles prevents them from coming into contact with each other. A protective colloidal network is thus formed, in which sedimentation of the disperse particles is prevented, and their tendency for agglomeration is reduced. The high resistance of the colloidal solutions of gum arabic explains their designation as “protective colloid”. The dosage in the wine just before bottling should be done up to 24 hours before filtration with a membrane filter cartridge.

If there is insufficient time to do this, it is advisable to add the product at least five days prior to bottling.

Important note: if the gum arabic concentration is not sufficient, gaps appear in the colloidal grid. Water bridges are formed between the gum arabic molecules, and the protective effect is gradually reduced: undesirable turbidities through flocculation of the colloid particles could be the result.

Product Characteristics

Gum arabic (E 414) originates from natural excretions or from the healing process of damage to the bark of the leguminous plant *Acacia Verek of Sudan*. This consists of L-arabinose, D-galactose, L-rhamnose and D-glucuronic acid. An initial high colloid content in the wine can lead to problems during filtration, particularly during final filtration via membrane filter cartridges. The reason is that the addition of SIHA Gum Arabic Liquid stabilizer (also a colloid) causes an increase in the colloid content of the wine, which may lead to the membranes becoming clogged.

The addition of SIHA Gum Arabic Liquid stabilizer leads to color stabilization in red and rosé wines. As a side effect, the “mouth feeling” of the wine is also improved.

Dosage

The dosage depends on the type of wine and the application.

Dosage: 8.96 – 12.80 fl oz/100 gal
(70 – 100 ml/hl)

Statutory maximum quantity: 19.2 fl oz/100 gal
(150 ml/hl)

Safety

When used and handled correctly, there are no known unfavorable effects associated with SIHA Gum Arabic Liquid stabilizer.

Further safety information can be found in the relevant Material Safety Data Sheet, which can be downloaded from our website.

Storage

SIHA Gum Arabic Liquid stabilizer should be stored in a cool, dark and dry place.

Delivery Information

SIHA Gum Arabic Liquid stabilizer is sold under article no. 65.121 and is available in the following package size:

22.05 lb (10 kg) PE canister

Certified Quality

SIHA Gum Arabic Liquid stabilizer is constantly monitored during the production process to ensure consistently high quality. These inspections cover technical function criteria as well as conformance with the relevant laws governing the production and sale of foodstuffs. Strict controls are carried out immediately before as well as during final packaging.



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