

Eastman **SUSTANE™** SAIB ET-10

Food grade, kosher

(sucrose acetate isobutyrate/ethyl alcohol)

Sustane SAIB food grade, kosher is a density-adjusting agent used in beverages that contain essential flavoring oils. SAIB ET-10 is a blend of Sustane SAIB and 10% undenatured food grade ethanol. This blend is designed specifically for beverages that require a weighting agent with enhanced cloud properties, neutral taste, and ease of handling. The low viscosity of SAIB ET-10 provides a pourable liquid that can be added directly to flavoring oils without heating.

Typical properties

Property	Typical value, units
Form @ 25°C	Pourable liquid
Ethyl alcohol	9%–11%
Density @ 25°C	1.1 kg/L
Flash point, Setaflash closed cup	28°C (82°F)
Viscosity @ 25°C	1,000 cP, approx.
Acid number (mg KOH/g)	0.2 max.
Color Pt-Co	200 max.

Applications

SAIB ET-10 is commonly used in cloudy beverages as a density-adjusting agent to prevent essential flavoring oils from separating in a finished beverage. It can be used as a replacement for or in combination with brominated vegetable oil (BVO) as well as glycerol ester of rosin (ester gum). Sustane SAIB ET-10 has many advantages over BVO and ester gum including ease of handling, taste neutrality, and wide regulatory approvals.

Packaging

SAIB ET-10 is packaged in 208 liter (55-gallon U.S., 45.8-gallon U.K.) closed-head steel drums. The drums have one 51-mm (2-in.) diameter opening and one 19-mm ($\frac{3}{4}$ -in.) diameter opening on top with no side openings. The net weight of each drum is 215.5 kg (475 lb). According to information provided by our drum supplier, the drums have been treated with linings that may lawfully be used in contact with foods.

Storage and handling

SAIB ET-10 contains a volatile, flammable liquid (ethyl alcohol) and should be handled accordingly. Storage in a cool dry warehouse is recommended. This material must be kept away from heat sources, sparks, and flames. Refer to the Safety Data Sheet (SDS) for further information.

Regulatory status

Sucrose acetate isobutyrate is specifically permitted for use in beverages under the food laws of many countries. Sustane SAIB ET-10 food grade may also be used in many of these countries if ethyl alcohol is permitted. Prospective SAIB ET-10 users should consult appropriate regulatory agencies in their countries concerning the use of SAIB ET-10 in their applications.

United States Food and Drug Administration Regulation 21 CFR 172.833 allows for sucrose acetate isobutyrate (SAIB) as a stabilizer of emulsions of flavoring oils in nonalcoholic beverages. The total SAIB content of a beverage may not exceed 300 milligrams/kilogram of the finished beverage. In addition, GRAS Notice No. GRN 104 allows for use of SAIB as a stabilizer of emulsions of flavoring oils used in alcoholic beverages as premixed liquid or solid cocktail products, malt beverage coolers including flavored products containing beer and alcoholic "cooler beverages," or wine coolers at a level not to exceed 300 parts per million.



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