



SUSTANE

SAIB MCT

Sustane SAIB MCT Food Grade, Kosher
(Sucrose Acetate Isobutyrate/Medium Chain Triglycerides)

Introduction

Sustane SAIB Food Grade, Kosher (sucrose acetate isobutyrate) is a density-adjusting agent used in beverages that contain essential flavoring oils. *Sustane* SAIB MCT Food Grade, Kosher is a blend of *Sustane* SAIB Food Grade and medium chain triglycerides. This blend is designed specifically for those beverages that require a weighting agent with enhanced cloud properties, neutral taste, and ease of handling. *Sustane* SAIB MCT pours readily at room temperature (25°C). No heating is required prior to use.

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Table 1

Technical Information

Property	Typical Value, Units
Form @ 25°C	Pourable liquid
Medium Chain Triglycerides	18–22%
Density @ 25°C	1.11 g/cm ³
Flash Point, Tag Closed Cup	>99°C (>210°F)
Viscosity @ 25°C	5,000 cP, approx.
Acid Number (mg KOH/g)	0.3 max
Color, Pt-Co	200 max

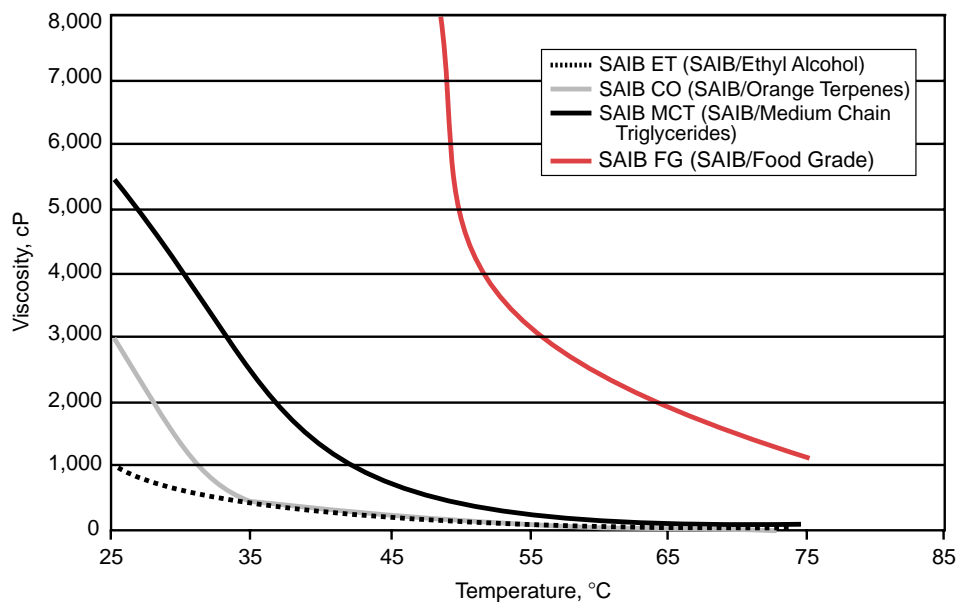
Properties

Because of its low viscosity at room temperature, *Sustane SAIB MCT* can be easily added to beverages at common operating temperatures and conditions. Addition can be accomplished by using standard transfer pumps and nonheated piping. Like *Sustane SAIB Food Grade*,^a it dissolves rapidly in many flavoring oils and solvents. *Sustane MCT* will not interfere with flavor packages because it is odorless and flavorless at concentrations typically used in beverages.

Figure 1 shows the effect of temperature on the viscosity of *Sustane SAIB Food Grade* and its related blends. The viscosity of *Sustane SAIB MCT* is about 5000 cP at room temperature (25°C).

Figure 1

Viscosity Behavior of *Sustane SAIB Food Grade*,
Kosher and Blended Products



^aEastman has proven *Sustane SAIB* to be hydrolytically stable in beverages.

Applications

Sustane SAIB MCT can be used as a beverage weighting agent for cloudy beverages. In such beverages, it prevents essential oils from separating and preserves flavor and cloud stability. *Sustane* SAIB MCT has many advantages over brominated vegetable oil (BVO) and ester gum including easy handling, taste neutrality, and wide regulatory approvals.

Storage and Handling

Sustane SAIB MCT should be stored in a cool, dry warehouse. This material should be kept away from heat sources and UV light and stored in tightly sealed containers. Refer to Material Safety Data Sheet (MSDS) for further information.

Food Regulatory Clearances

Sustane SAIB MCT is a blend of sucrose acetate isobutyrate (SAIB) and medium chain triglycerides (MCTs).

United States: *Sustane* SAIB MCT may be used as a stabilizer of emulsions of flavoring oils in nonalcoholic and alcoholic beverages at a level of 300 ppm in the finished beverage.

- SAIB may be used under the United States Food and Drug Administration (FDA) food additive regulations as a stabilizer of emulsions of flavoring oils in nonalcoholic beverages at levels of 300 ppm in the finished beverage (21 CFR 172.833) and is the subject of a Generally Recognized As Safe (GRAS) notification covering its use at the same levels in alcoholic beverages (GRN No. 104).
- MCTs, when used in a blend with SAIB as a beverage weighting agent, are regarded as GRAS. MCTs are the subject of a GRAS affirmation petition which FDA accepted for filing with no limitations on use except those required by good manufacturing practice.

Other Countries: *Sustane* SAIB MCT may be used as a stabilizer of emulsions of flavoring oils in nonalcoholic beverages at a level of 300 ppm in the finished beverage in Argentina, Brazil, Canada, European Union, Norway, Paraguay, Switzerland, and Uruguay. Use level limits in Australia and New Zealand is dependent upon the type of beverage (e.g., 200 ppm for soft drink and fruit drink products). GMP is the only guideline for Japan, Malaysia, and South Korea. The regulatory status in other countries is under review. For updated information, contact your Eastman representative.

This information is not to be taken as a complete and currently accurate representation of the regulatory status of this product, nor is it intended to imply that this product is not permitted in countries not specifically discussed. Prospective users should consult the appropriate regulatory agency in their country.

Packaging

Sustane SAIB MCT Food Grade, Kosher is packaged in 208 liter (55-gal. U.S., 45.8-gal. U.K.) closed-head steel drums. The drums have one 51-mm (2-in.) diameter opening and one 19-mm (¾-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.

EASTMAN

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Material Safety Data Sheets providing safety precautions that should be observed in handling and storing Eastman products are available online or on request. You should obtain and review the available material safety information before handling any of these products. If any materials mentioned are not Eastman products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed.

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