

Benefits and compatibility of Eastman Sustane™ SAIB in formulations containing silicones

Sucrose acetate isobutyrate (SAIB) is a low-odor, thermally stable ingredient produced by the controlled esterification of sugar (sucrose) with acetic and isobutyric anhydrides. In its 100% concentration, SAIB is extremely viscous. To provide ease of handling, low-viscosity blends are available. SAIB can be used in many cosmetic and personal care applications that contain silicone.

Silicones are desired ingredients in many personal care applications. Their performance benefits can be complemented with SAIB. The following table is a guide to SAIB-silicone compatibility. Mixtures are considered compatible if they are clear and homogeneous.

Benefits of Eastman Sustane™ SAIB in cosmetic and personal care formulations with silicone

Application	Recommended SAIB products	Benefits of SAIB
Lipstick, lip gloss, mascara, foundation, and concealer	Sustane SAIB MCT Sustane SAIB	Extended wear Transfer resistance Water resistance
Skin cream and lotion	Sustane SAIB MCT	Water resistance
Shampoo and conditioner	Sustane SAIB MCT Sustane SAIB	Body and manageability

INCI name

Eastman Sustane SAIB: Sucrose Acetate Isobutyrate

Eastman Sustane SAIB MCT: Sucrose Acetate Isobutyrate (and) Caprylic/Capric Triglyceride



Antiperspirant aerosol formulation with Sustane CG 200 for fragrance longevity

The following table shows our formulation recommendations for the use of Sustane CG 200 fragrance fixative in antiperspirants to achieve fragrance longevity.

INCI name	Trade name	Weight %
Butane/isobutane/propane	HARP® AP40	80–90
Aluminum chlorohydrate	Elementis AACH 7172	4–6
Cyclopentasiloxane	DC 245/PMX-0245	3–6
PPG-14-butyl ether	Dow Fluid AP	0–4
Perfume	Various	0.5–2
Disteardimonium hectorite	Elementis Bentone® 38V	0.2–1
Propylene carbonate	Propylene carbonate	0.005–0.02
Sucrose acetate isobutyrate	Eastman Sustane CG 200 fragrance fixative	1–2

Formulation recommendations

Make a premix of fragrance oil and Eastman Sustane CG 200. Proceed according to normal procedure. Add the fragrance/Sustane compound when the fragrance is normally added.

Deodorant aerosol formulation with Sustane CG 200 for fragrance longevity

The following table shows our formulation recommendations for the use of Sustane CG 200 fragrance fixative in deodorants to achieve fragrance longevity.

INCI name	Trade name	Weight %
Butane/isobutane/propane	HARP AP40	40–60
Alcohol	Ethanol (96% or 99%)	40–60
Perfume	Various	0.5–2
Sucrose acetate isobutyrate	Eastman Sustane CG 200 fragrance fixative	1–2

Formulation recommendations

Make a premix of fragrance oil and Eastman Sustane CG 200. Proceed according to normal procedure. Add the fragrance/Sustane compound when the fragrance is normally added.

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