



IOI OLEOCHEMICAL

PERSONAL CARE

TECHNICAL DATA SHEET

DYNASAN® 114 DYNASAN® 118

INCI: Trimyristin
Tristearin



- **CONSISTENCY REGULATOR**
- **SEEDING AGENT**
- **SHARP MELTING POINT**



DESCRIPTION

DYNASAN® 114 and **DYNASAN® 118** are consistency agents and viscosity adjusters for water-free, oil-based products and emulsions. They are 100% natural, vegan, RSPO MB certified, halal and produced exclusively in Germany. Trimyristin can be found in nutmeg and other vegetable fats and oils such as tristearin. In oil phases, both types are viscosity controlling agents or thickening agents.

Both DYNASAN® types are triester of glycerin and myristic acid or stearic acid. They are white solid powders with a neutral odor and taste. DYNASAN® types are highly stable against oxidation. The stable β -modification has a very sharp melting point and a triclinic structure.

APPLICATION

DYNASAN® types are used as adjuvants in stick formulations and as crystallization accelerators and seeding agents to improve the solidification process. Furthermore, they can be used in creams and lotions as body-imparting and structure-forming components. In vegan W/O emulsions, they can replace beeswax and still lead to the same viscosity and stability.

<input checked="" type="checkbox"/> Skin Care	<input checked="" type="checkbox"/> Body Care	<input checked="" type="checkbox"/> Sun Care	<input checked="" type="checkbox"/> Color Cosmetics
<input checked="" type="checkbox"/> Baby Care	<input checked="" type="checkbox"/> Hair Care	<input type="checkbox"/> Bath Care	<input type="checkbox"/> Wet Wipes
<input checked="" type="checkbox"/> Self-Tanning	<input checked="" type="checkbox"/> Beard Care	<input checked="" type="checkbox"/> Deodorants	<input type="checkbox"/> Intimate Hygiene

Both **DYNASAN® 114** and 118 are miscible with oils and fats and virtually insoluble in water.

FORMULATION HINTS

- Melting point DYNASAN® 114: 55 – 60°C
- Melting point DYNASAN® 118: 69 – 73°C
- Application – Viscosity increasing and body imparting in O/W systems: 1 – 4%
- Application – Stability in W/O emulsions: lead to a similar stability and viscosity as beeswax
 - Recommended dosage 1 – 2%
- Application - Binders for pressed powder: the amount of binders varies with the particular formulation. Problems such as glazing (too hard), crumbling (too soft) and color development make it important to choose the amount or combination of binders carefully.
 - Recommended dosage 0.5 – 5%
- Application – Melting point adjuvants, crystallization accelerators and seeding agents to improve the solidification process in stick and pencil formulations.
 - Recommended dosage 0.5 – 5%
 - Slow and steady cooling of the finished formulation is recommended. Too rapid cooling after melting leads to the initial formation of glassy, amorphous masses, which change over time to a crystalline modification with expanded volume.
- Recommended pH value: 4.0 – 7.0 (The lower the pH, the higher the viscosity)



FORMULATION GUIDE

MAYDAY RESCUE BALM NO. 831

Mayday! Mayday! Is your skin screaming for help? Is it dry, patchy, itchy or just not smooth anymore? Help is here with the Mayday Rescue Balm. Its oil mixture comprising of vegetable oils and our sensory emollients is effective in making your skin look and feel healthy after an overnight cure. SOFTIGEN®PURA melts on your skin leaving a pleasant film and reducing TEWL significantly, whereas SOFTISAN® conditionHAIR conditions and moisturizes. The thick balm gets absorbed quickly, working behind scenes the whole night. Awake renewed with skin that feels fresh, healthy, and beautiful. Apply when and wherever needed.

	Trade Name	INCI	%
PHASE A	DYNASAN® 118	Tristearin	3.0
	WITARIX® MCT C8	Tricaprylin	15.0
	SOFTIGEN®PURA	Olus Oil (EU)/ Vegetable Oil (US)	8.0
	MIGLYOL® OE	Oleyl Erucate	14.0
	Castor Oil	Ricinus Communis (Castor) Seed Oil	40.5
	SOFTISAN® conditionHAIR	PCA Glyceryl Oleate	1.0
	Kahlwax 2039L Candelilla Wax	Euphorbia Cerifera (Candelilla) Cera	4.0
	Sweet Almond Oil	Prunus Amygdalus Dulcis (Sweet Almond) Oil	14.0
	Tocopherol	Tocopherol	0.5

PREPARATION:

1. Mix and heat all ingredients to approx. 80°C.
2. Cool down to approx. 50 - 55°C while stirring and fill into molds.
3. Allow to cool down to room temperature.

SUPPLIERS:

IOI Oleo GmbH: DYNASAN®, MIGLYOL®, SOFTISAN®, WITARIX®
KahlWax: Candelilla Wax



INSTA-MOIST LIP BALM NO. 843

Be insta-ready with this Insta-Moist Lip Balm. Instantly softened, well-moisturized lips and a hint of color - your followers will see it and you will feel it! The special balm sensory profile is achieved due to our consistency agents SOFTISAN® 154 and DYNASAN® 118 - providing consistency and structure without a drag or waxy feel. The combination of several vegetable oils with MIGLYOL® OE leads to reduced tackiness, WITARIX® MCT C8 makes your lips super smooth and SOFTIGEN®PURA reduces the transepidermal water loss significantly, whereas SOFTISAN® conditionHAIR conditions and moisturizes your lips. Color + care in an instant. Selfies make more fun when you feel good!

	Trade Name	INCI	%
PHASE A	WITARIX® MCT C8	Tricaprylin	15.0
	MIGLYOL® OE	Oleyl Erucate	12.0
	SOFTIGEN®PURA	Olus Oil (EU)/ Vegetable Oil (US)	8.0
	Castor Oil	Ricinus Communis (Castor) Seed Oil	26.0
	Sweet Almond Oil	Prunus Amygdalus Dulcis (Sweet Almond) Oil	9.0
	Jojoba Oil	Simmondsia Chinensis (Jojoba) Seed Oil	5.0
	SOFTISAN® 154	Hydrogenated Palm Oil	10.0
	DYNASAN® 118	Tristearin	3.0
	6642 Carnauba Wax Organic	Copernicia Cerifera (Carnauba) Cera	2.0
	2039L Candelilla Wax	Euphorbia Cerifera (Candelilla) Cera	1.0
	IMWITOR® 600	Polyglyceryl-3 Polyricinoleate	2.0
	SOFTIGEN® 701 ECO	Glyceryl Ricinoleate (and) Tocopherol	5.0
	SOFTISAN® conditionHAIR	PCA Glyceryl Oleate	1.0
	Tocopherol	Tocopherol	0.5
PHASE B	C91-6133 Intenza® Rubis Velvet	Synthetic Fluorophlogopite (and) CI 15850	0.1
	Raspberry Lips 6800026	Parfum (EU)/ Fragrance (US)	0.4

PREPARATION:

1. Heat phase A up to 80 - 85°C.
2. Cool down to 70°C while stirring and add phase B. Stir until homogenous.
3. Fill into container @ 60 - 65°C and allow cooling down.

SUPPLIERS:

IOI Oleo: DYNASAN®, IMWITOR®, MIGLYOL®, SOFTIGEN®, SOFTISAN®, WITARIX®
 Kahlwax: Carnauba Wax, Candelilla Wax
 SunChemical: Intenza®
 Bell: Parfum



HANDLING AND SHELF LIFE

The shelf life for DYNASAN® 114 and DYNASAN® 118 is at least twenty-four months if the product is stored below 25°C in a dry place in original, tightly closed containers, protected from light and moisture.

PACKAGING UNITS

Carton box with 25 kg; 450 kg on CP2 pallet

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Raw material approved by ECOCERT GREENLIFE, compliant with the COSMOS standard

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