

PRODUCT DATA

Glutamix™ A-50

Sep 2016

Trade Name: Glutamix™ A-50**Chemical Name:** Sodium Cocoyl Glutamate Surfactant Blend**Typical Properties:**

Appearance (25 °C)	Slight yellowish to amber, clear to slight turbid liquid*
Odor	Slight characteristic odor
pH (As is, 25 °C)	6.5 - 10.5
Color (APHA)	200 Max.
Solids (%)	46.0 Min.
Viscosity (As is, 20~25 °C, mPa.s)	3, 500 Max.

* May solidify in cold weather, but shall resume upon gentle heating at above 40 degrees Celsius. This is normal and shall not affect its use.

Introduction:

Glutamix™ A-50 is a mild, cost-effective, high-performing, ease to use Glutamate surfactant blend.

Features & Characteristics:

- PEG-free, EO & PO-free, Polymer-free, Sulfate-free Surfactant Blends;
- Capable of self-thickening with adjustment of pH within 4.8-5.8;
- Cold Process Capable;
- No polymer thickener needed, but may work synergistically if desired;

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Directions/Use Guidelines:

- Glutamix™ A-50 can be easily used as a concentrated surfactant blend, and simply add other additives and adjust formulation pH within 4.8-5.8 to obtain various products with desired viscosity and excellent performance.
- Viscosity Range (cPs @ RT): 3,000 ~ 22,000**

** The viscosity of the formulation with Glutamix™ A-50 may decrease significantly and the appearance turn opaque at 0-5°C in cold weather, but will resume upon return to room temperature. This phenomenon is normal and will not affect its use.

Applications: Sulfate-Free Body Wash, Hair Shampoo, Facial Cleansers, Hand Cleansers, Baby Head-to-Toe Cleanser, Feminine Wash, Dish Detergent, Carpet Cleaners; Home Cleaners; Dairy Cleaners, DIY products; Spa/Salon Products; all cleansing products.

Use Level: 30 - 48 %.

FORMULA Example:

Self-Thickening Glutamate Cleanser Super Chassis
(Cold Process)

Description: This mild, natural, “sulphate-free” formula chassis vividly demonstrates how the Glutamix™ A-50 (Sodium Cocoyl Glutamate Surfactant Blend) can be easily used to make high-performing mild cleansing products that are self-thickening to reach a viscosity up to ~15,000 cP. It is well-suited for all types of mild “sulphate-free” cleansing products and ideal for busy chemists due to the ease of use, high performance and quick turn-around time.

	Ingredient	%W/W	Supplier/INCI Name	Function
A	Glutamix™ A-50	40.0	Sino Lion / Sodium Cocoyl Glutamate Surfactant Blend	Cleansing
	Distilled water	55.0		Medium
B	Citric Acid (50%)	q.s (3-5)		pH Adjuster
C*(Optional)	Everlipid™ EFA	1.0	Sino Lion / Linoleamidopropyl PG-Dimonium Chloride Phosphate	Additive, Emollient

Procedure

1. Add ingredients in Phase A and mix until uniform at room temperature;
2. Add Phase B slowly to Phase A while mixing to adjust the pH of the formula, and observe the viscosity change visually;
3. Measure the pH and the Viscosity when the formula becomes thick visually;
4. Add Optional Phase C to the formula, and measure pH and viscosity. Adjust the pH to 5.0-5.2 as needed.

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Properties

Appearance: Pourable, light yellowish, clear, viscous liquid
 Viscosity: 3,000-15,000 cP (25°C, Brookfield DV2T, 20rpm, Spindle #3-5)
 pH: 5.0-5.2

Above Chassis can be easily applied in the following Body Wash Formula:

Sulfate-free Glutamate Clear Body Wash with GLUTMAMIX™ A-50

Ingredient	%W/W	Supplier/INCI Name	Function
Glutamix™ A-50	40	Sino Lion / Sodium Cocoyl Glutamate Surfactant Blend	Primary Surfactant
Everlipid™ EFA	1	Sino Lion / Linoleamidopropyl PG-Dimonium Chloride Phosphate	Additive, Emollient
Deionized water	55		Medium
Citric Acid (50% Solution)	q.s		pH Adjuster

Procedure

1. Mix all the materials until uniform. Adjust pH;
2. Adjust pH within 5.0-5.2 to obtain desired viscosity, add water if needed.

Properties

Appearance: Light yellowish, clear viscous liquid, may turn hazy or opaque at 0-5°C, but will resume upon return to room temperature.
 Viscosity: 3,000-15,000cP (25°C, Brookfield DV2T, 20rpm, Spindle #3-5) At 0-5°C, viscosity may decrease significantly, but will resume at room temperature. This is normal phenomenon and will not affect its use or performance.
 pH: 5.0-5.2

Storage: Sealed and stored in a dry, cool place.

Package: 20~25MT/ISO TANK, 1000KG/IBC DRUM, 200KG/DRUM.

Retest date: 24 months from manufacturing date (Tentative).