

“Where Quality and Service Meet”

IntegriFACTANT SFB



A Safe, Mild and High-Foaming
Sulfate-Free Surfactant Blend

Integrity Ingredients Corporation

“Where **Quality** and **Service** Meet”

IntegriFACTANT SFB



About Us...

Integrity Ingredients Corporation was founded on the belief that our customers deserve two things - high quality raw materials and true customer service.

We offer an extensive line of polymers...

- Highly efficient thickeners/emulsifiers (IntegriGELS), which are available in a variety of formulating options, from broad pH to cationic and anionic.
- Gelling, thickening polymers (Integrity C900 Series and our new easy-to-disperse and electrolyte-resistant C800 Series.
- Conditioning polymers (IntegriQUATS)
- Exfoliating polymers (IntegriEXFOLIANTS)

IntegriFACTANT SFB

INCI Name: Sodium Methyl-2 Sulfolaurate (and) Cocamidopropyl Hydroxysultaine (and) Sodium Lauryl Sulfoacetate (and) Cocamidopropyl Betaine (and) Disodium 2-Sulfolaurate (and) Decyl Glucoside

IntegriFACTANT SFB is a proprietary, sulfate-free blend developed by Integrity Ingredients Corporation. This dynamic, sulfate-free blend will produce a mild system with excellent foam characteristics.

Specifications:

CAS# 149458-07-1 and 1847-58-1 and 61789-40-0 and 58846-77-8 and 38841-48-4 and 68139-30-0

Analytical Details Range

| | |
|--------------------|---|
| Appearance | Clear to Yellow Liquid |
| Odor | Characteristic |
| pH | 5.0 - 6.5 |
| Viscosity | 2,500 cps Max. Brookfield LVT, spindle #3, 12 rpm |
| Active Content (%) | 28 - 35 |
| Microbial Count | Less than 100 cfu/g |
| Pathogens | Negative |
| Yeast and Mold | Negative |
| Shelf Life | 12 Months |

Functional Properties:

- Mild and non-irritating.
- Excellent skin feel.
- Easy handling.
- Naturally derived.
- Provides stable, creamy foam.
- Sulfate-free.

Continued...

IntegriFACTANT SFB

Viscosity Response Properties:

Additional Salt (NaCl) Test

Test Formulation:

| | |
|------------------------|-------|
| Deionized Water (%) | 70.00 |
| IntegriFACTANT SFB (%) | 30.00 |

Test Procedure:

- Pre-blend a total of 500 gms of the test formulation ingredients in a 600 ml beaker.
- After the initial viscosity reading, add 0.25% NaCl to the batch, mix completely and take viscosity reading. Repeat.
- Test viscosity using a Brookfield LVT Viscometer Spindle 2 / Speed 3 at 25°C.

Readings:

| | |
|--|----------|
| Initial - No additional NaCl | 200 cps |
| Additional 0.25% NaCl | 700 cps |
| Additional 0.25% NaCl - Total 0.50% NaCl | 2800 cps |
| Additional 0.25% NaCl - Total 0.75% NaCl | 7600 cps |

On the Foam Test:

- Change from foam height 500 ml to 250 ml.
- Add a third column for 10 minutes.
- No "With Oil" column.

Foaming Properties:

Graduated Cylinder Shake Test

Test Formulation:

| | |
|------------------------|-------|
| Deionized Water (%) | 85.00 |
| IntegriFACTANT SFB (%) | 15.00 |

Test Procedure:

- Pre-blend the test formulation ingredients and fill 250 ml graduated cylinder to 40 ml.
- Invert and upright the cylinder every two seconds a total of 10 times.
- Set on flat surface and take reading.

Readings:

| | |
|-------------|--------|
| Initial | 210 ml |
| Five Minute | 210 ml |
| Ten Minute | 190 ml |

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CONFIDENTIAL
FINISHED PRODUCT FORMULATION

Baby Care Formulary

Gentle & Mild Baby Shampoo

| <u>Ingredient</u> | <u>%</u> | <u>Supplier</u> |
|---|----------|-----------------------------------|
| Part A | | |
| Deionized Water | 62.67 | |
| Sodium Phytate | 0.03 | |
| Potassium Sorbate | 0.05 | |
| Part B | | |
| IntegriFACTANT SFB | 30.00 | Integrity Ingredients Corporation |
| Part C | | |
| IntegriACTIVE Anti-Irritancy Complex | 1.00 | Integrity Ingredients Corporation |
| IntegriVITAMIN DL 50% Panthenol | 0.50 | Integrity Ingredients Corporation |
| IntegriBOTANICAL Aloe Vera Gel 10X (CG) | 1.00 | Integrity Ingredients Corporation |
| IntegriGUARD CFS-LIQ | 0.50 | Integrity Ingredients Corporation |
| Litein W | 0.50 | Vegetech |
| Liqui Oats Blend | 0.50 | Vegetech |
| Formulex of Chamomile | 1.00 | Vegetech |
| Part D | | |
| IntegriFACTANT SDO 30 | 2.00 | Integrity Ingredients Corporation |
| Sweet Pea Baby Fragrance # 6104048 | 0.25 | |
| Citric Acid 50% Soln. to Specification | Q.S. | |

Procedure:

Add water to mixing tank. Add the remaining ingredients in Part A in order shown, ensuring that each one is completely dispersed/dissolved before the addition of the next. Carefully add Part B and mix batch completely. Use care not to incorporate excess air. Add Part C ingredients in order shown and mix completely. Add Part D ingredients in order shown while mixing. Batch will thicken with the addition of IntegriFACTANT SDO 30. Mix the fragrance into the batch, ensuring that the batch is completely clear and homogenous.

Specifications:

| | |
|------------|-----------------------------------|
| Appearance | Clear, Viscous Gel |
| pH | 6.0 - 6.5 |
| Viscosity | 2500 - 5000+ cps (Brookfield LVT) |

Attributes:

Does NOT contain sulfates, parabens, dyes, animal by-products, silicones, mineral oil, petrolatum, phthalates or alcohol.

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CONFIDENTIAL
FINISHED PRODUCT FORMULATION

Hair Care Formulary

Gentle Cleansing & Moisturizing Shampoo

| <u>Ingredient</u> | <u>%</u> | <u>Supplier</u> |
|---|----------|-----------------------------------|
| Part A | | |
| Deionized Water | 57.17 | |
| Disodium EDTA | 0.03 | |
| Potassium Sorbate | 0.05 | |
| IntegriQUAT 10-400 | 0.50 | Integrity Ingredients Corporation |
| Hydrolyzed Quinoa Protein | 0.50 | Vegetech |
| IntegriQUAT PQ-7PF | 1.00 | Integrity Ingredients Corporation |
| Formulex of Chamomile | 1.00 | Vegetech |
| IntegriACTIVE Anti-Irritancy Complex | 1.00 | Integrity Ingredients Corporation |
| IntegriVITAMIN DL 50% Panthenol | 0.50 | Integrity Ingredients Corporation |
| IntegriBOTANICAL Aloe Vera Gel 10X (CG) | 0.50 | Integrity Ingredients Corporation |
| IntegriGUARD CFS-US | 0.50 | Integrity Ingredients Corporation |
| Part B | | |
| IntegriFACTANT SFB | 35.00 | Integrity Ingredients Corporation |
| Lipex Shea Betaine | 1.00 | AAK |
| IntegriFACTANT SDO 30 | 1.00 | Integrity Ingredients Corporation |
| Part C | | |
| Fragrance Cashmere #6110978 | 0.25 | |

Procedure:

Add water to mixing tank. Add the remaining ingredients in Part A in order shown, ensuring that each one is completely dispersed/dissolved before the addition of the next. Carefully add the ingredients in Part B in order shown and mix batch completely. Use care not to incorporate excess air. Batch will thicken with the addition of IntegriFACTANT SDO 30. Add Part C fragrance to the batch and mix until the batch is completely homogenous.

Specifications:

pH 5.5 - 6.5
Viscosity 3000 - 5000+ cps (Brookfield LVT Spindle 2 / Speed 3)

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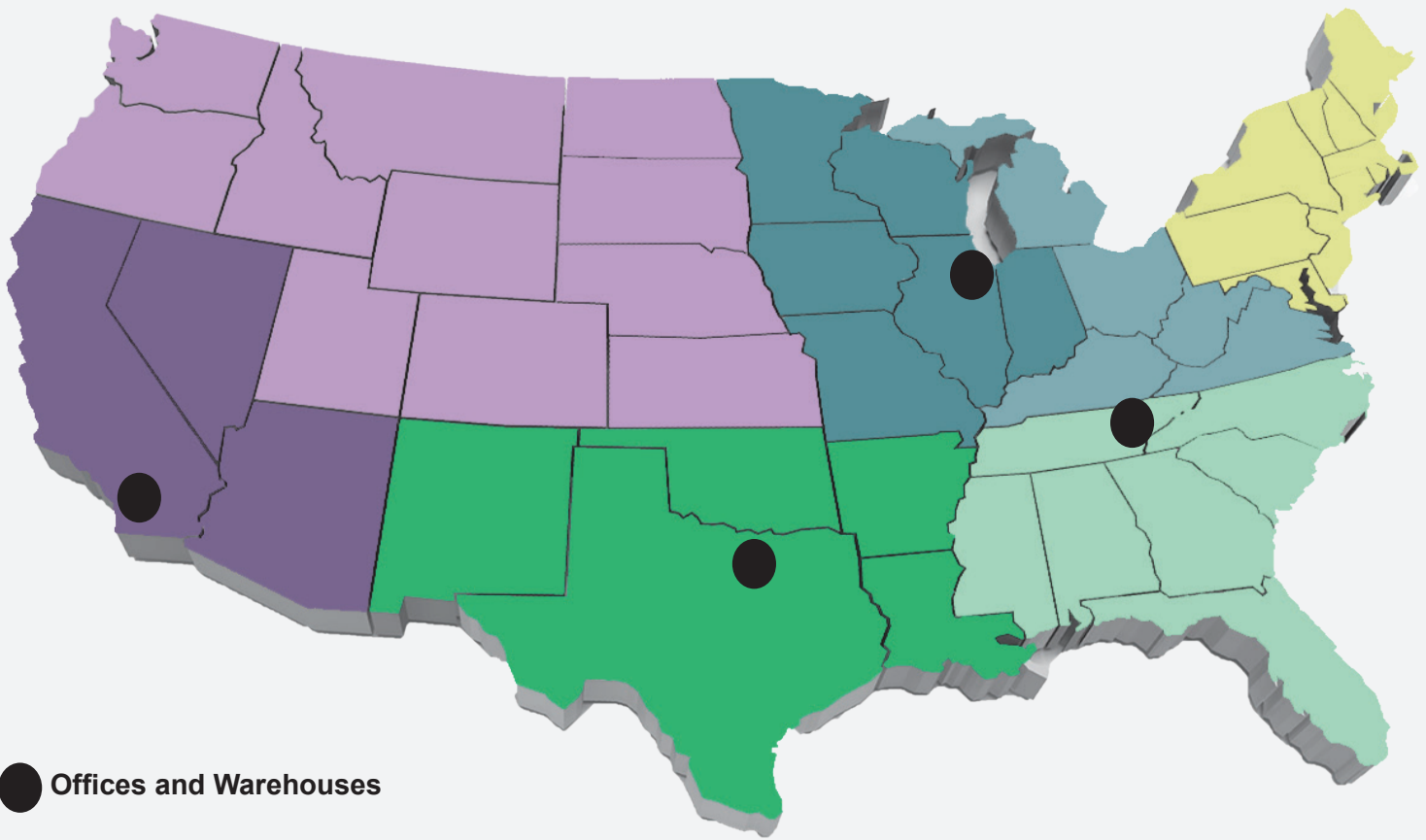


Technical Support...

Our in-house Technical and Applications Lab is always available to address the growing needs of our customers. Whether you have a raw material technical question or need formulating assistance, we are here and ready to help.

At Integrity Ingredients Corporation, we know the important role our ingredients have in your formulations. Our lab is solely dedicated to actively working with all of our ingredients in a variety of applications. By doing this, we can make accurate recommendations to our customers on how our ingredients will interact and perform with other ingredients and system types.

Our team at Integrity Ingredients Corporation recognizes that you have many choices when formulating or purchasing your raw materials, and we want to thank you for your interest in our products and services.



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