



## Sheffield™ Myverol 18-08K

INCI: Glyceryl hydrogenated rapeseedate  
GMS to Suit Today's Consumer Tastes

Product Code:

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Sheffield™ Myverol 18-08K is a low HLB emulsifier and viscosity builder for creams and lotions. This new generation of food use approved Glyceryl Monostearate (GMS) is based on sustainable, non-GMO rapeseed oil.

To address today's consumer, with their concerns about sustainability and genetic modification, the cosmetic formulator would do well to start with Sheffield™ Myverol 18-08K over conventional Glyceryl Stearate.

It can be paired with nonionic or anionic high HLB emulsifiers to meet the requirement of a specific emollient phase, or used to thicken existing formulations by assisting in the formation of liquid crystalline structures around emulsion droplets.

- Vegan
- Kosher
- Halal
- Low HLB Emulsifier
- Viscosity Builder
- Non-GMO and Sustainable

# ACTS-1448: Liquid Luxury

**Description:** This luxurious yet light lotion packs hydration from many fronts. The emulsifier system is a combination of the progressive rapeseed oil based 'GMS' Sheffield™ Myverol 18-08K and the hydrophilic lysophospholipid.

**Featuring:** Sheffield™ Myverol 18-08K  
(co-starring – Sheffield Gum Acacia KLTA- AMF)

## Ingredients

Phase	%	Tradename	INCI	Supplier	Function
A	2.25	Sheffield™ Myverol 18-08K	Glyceryl Hydrogenated Rapeseedate	Kerry	Emulsifier
A	15.0	Lipex SheaLight	Shea Butter Ethyl Esters	AAK	Emollient
B	68.2	Water			
B	0.30	Keltrol CG	Xanthan Gum	CP Kelco	Polymer
B	1.50	Sheffield™ Gum Acacia KLTA-AMF	Acacia Senegal Gum	Kerry	Polymer
B	9.00	Zemea	Propanediol	DuPont Tate & Lyle	Humectant
C	2.75	Lysofix Dry	Glycine Soja (Soybean) Seed Extract	Kemin	Emulsifier
D	1.00	Germaben II	Propylene Glycol (and) Diazolidinyl Urea (and) Methylparaben (and) Propylparaben	Ashland	Preservative



## Procedure:

1. Heat phase A to 70° C
2. Premix gums and Zemea, add to water
3. Heat phase B to 70° C
4. Add phase A to phase B with propeller
5. Add C when mixture is below 35° C
6. Add D
7. Homogenize
8. Mix with propeller to reduce any trapped air

<b>Viscosity Sp 3, 60 rpm</b>	<b>862 mPa*s</b>
pH	5.0

Formulation by: ACT Solutions Corp.  
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## Sheffield™ Admul Wol 1412K

INCI: Polyglyceryl-3 Polyricinoleate

Powerful Polymeric W/O Emulsifier/dispersant

Product Code:

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Sheffield™ Admul Wol 1412K is a naturally-derived, PEG-free, high performance polymeric water-in-oil (W/O) emulsifier used in food and personal care applications.

Water-in-oil emulsions provide such dermal benefits as enhanced skin moisturization and elasticity, higher SPF's, reduced water evaporation, and greater resistance to wash-off.

Sheffield™ Admul Wol 1412K is an easy-to-use liquid product and enables the formulation of high internal phase W/O emulsions with pleasing aesthetics. Sunscreens and deep-moisturizing face, hand, and body lotions are prime applications. Sheffield™ Admul Wol 1412K can also be used as a dispersant for inorganic particles in oils.

- Vegan
- Kosher
- Halal
- High internal phase W/O's possible
- PEG-free
- Dispersant for inorganics in oils



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# ACTS-1911: W/O HIP'ster

**Description:** This High Internal Phase (HIP) water-in-oil (W/O) emulsion will be excellent as a dry skin hand or body lotion. W/O emulsions offer superior skin care benefits but are often greasy-feeling. With a high aqueous phase, this formulation strikes a great balance between aesthetics and performance.

**Featuring:** Sheffield™ Admul Wol 1412K

## Ingredients

Phase	%	Tradename	INCI	Supplier	Function
A	3.00	Sheffield™ Admul Wol 1412K	Polyglyceryl -3 Polyricinoleate	Kerry	Emulsifier
A	17.00	Lipex Shealight	Shea Butter Ethyl Esters	AAK	Emollient
C	10.00	Zemea	Propanediol	Dupont Tate & Lyle	Humectant
C	69.2	Water	Water		
C	0.70		Magnesium Sulfate		Salt
C	0.10	Cab-O-Sil TS-622	Silica Dimethyl Silylate	Cabot	Thickener
C	q.s.				Preservative



## Procedure:

1. Mix A and B
2. Premix Water, Zemea, and Magnesium Sulfate until dissolved, then add Cab-O-Sil
3. Slowly add phase C to AB with propeller
4. Homogenize until glossy

Viscosity Sp 4, 30 rpm	9060 mPa*s
pH	5.7

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## Sheffield™ Myvatex P28 XL K

INCI: Glyceryl Stearate (and) Sodium Stearoyl Lactylate Versatile Emulsifier Composite

Product Code: 20624282

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Sheffield™ Myvatex P28 XL K is a versatile composite of lipophilic and hydrophilic emulsifiers in the ‘GMS and PEG-100 Stearate’ tradition, but with a modern flair. Those concerned about the use of ethoxylates in personal care products do not want to see “PEG” or “-eth” on their labels.

Formulators who have come to trust in ‘acid-stable, self-emulsifying GMS’ for versatility, ease of use, stability, and pleasing aesthetics now have an updated consumer-friendly choice, one that has been trusted with use in food applications for many years.

- Vegan
- Kosher
- Halal
- PEG-free emulsifier system
- Stable at wide pH range
- Preservative compatible



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# ACTS 1562: Light Touch

**Description:** This volatile silicone O/W cream has body and stability built with Sheffield™ Myvatex P28 XL K food emulsifier composite. Sheffield™ Myvatex P28 XL K is the natural successor to the ubiquitous Glyceryl Stearate/PEG-100 Stearate blend.

**Featuring:** Sheffield™ Myvatex P28 XL K  
(co-starring – Sheffield™ Gum Acacia KLTA-AMF)

## Ingredients

Phase	%	Tradename	INCI	Supplier	Function
A	3.00	Sheffield™ Myvatex P 28 XL K	Glyceryl Stearate (and) Sodium Stearoyl Lactylate	Kerry	Emulsifier
A	15.00	SF1202	Cyclopentasiloxane	Momentive	Emollient
B	74.80	Water			
B	1.00	Sheffield™ Gum Acacia KLTA-AMF	Acacia Senegal Gum	Kerry	Polymer
B	5.00	Zemea	Propanediol	DuPont Tate & Lyle	Humectant
B	0.20	Keltrol CG	Xanthan gum	CP Kelco	Polymer
C	1.00	Phenonip XB	Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Propylparaben	Clariant	Preservative



## Procedure:

1. Mix and heat phase A to 70 deg C
2. Heat phase B to 70 deg C
3. Add phase A to phase B with propeller stirring
4. Homogenize if necessary
5. Add phase C when below 45 deg C

Viscosity Sp 3, 6 rpm	13000 mPa*s
pH	4.8

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## Sheffield™ Admul MG 44-04K

INCI: Glyceryl Stearate SE Classic Emulsifier

Trusted GMS SE

Product Code: 20624990

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Sheffield™ Admul MG 44-04K is naturally-derived self-emulsifying glyceryl monostearate. GMS SE has been relied on for decades in the pharmaceutical, food, and personal care industries.

It is a PEG-free emulsifier system that can be used alone to produce stable lotions and creams with pleasing, familiar aesthetics. If stability under acidic conditions is important, turn to PEG-free, acid stable, self-emulsifying glyceryl monostearate, Sheffield™ Myvatex P28 XL K (glyceryl stearate (and) sodium stearyl lactylate.)

Traditional “GMS SE” is a great choice for simple creams and lotions. This product still finds its way into OTC and pharmaceutical products, given its USP/NF monograph and history of safe use. Again, Sheffield™ Myvatex P28 XL K is a preferred choice, especially if a formulator is attempting to use a consumer-friendly preservative system that requires that the pH of the formulation to be around 5.

- Vegan
- Kosher
- Halal
- GMO Free
- PEG-free emulsifier system
- Long history of safe use
- No co-emulsifier needed

# ACTS-1736: Serene Serum

**Description:** A perfect under eye or facial serum with easy formulating and processing. 'GMS SE' makes a comeback!

**Featuring:** Sheffield™ Admul MG 44-04K (co-starring – Sheffield™ Gum Acacia KLTA-AMF)

## Ingredients

Phase	%	Tradename	INCI	Supplier	Function
A	3.00	Sheffield™ Admul MG 44-04K	Glyceryl Stearate SE	Kerry	Emulsifier
A	15.00	EI Octyl Palmitate	Ethylhexyl Palmitate	Essential Ingredients	Emollient
B	5.00	Zemea	Propanediol	DuPont Tate & Lyle	Humectant
B	74.80	Water			
B	1.00	Sheffield™ Gum Acacia KLTA-AMF	Acacia Senegal Gum	Kerry	Polymer
B	0.20	Keltrol GC	Xanthan gum	CP Kelco	Polymer
C	1.00	Phenonip XB	Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Propylparaben	Ashland	Preservative



## Procedure:

1. Mix phase A and heat to 70° C
2. Premix gums and Zemea, add to water
3. Heat phase B to 70° C
4. Add phase A to phase B with propeller stirring
5. Homogenize if not glossy
6. Add C when mixture is below 45° C

Viscosity Sp 4, 6 rpm	11360 mPa*s
pH	6.6

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## Sheffield™ Myverol 18-06K

INCI: Glyceryl Hydrogenated Soyate  
Sustainable Soy GMS

Product Code: 20625494

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Sheffield™ Myverol 18-06K is a low HLB emulsifier and viscosity builder for creams and lotions. This is a food use approved Glyceryl Monostearate (GMS) based on sustainable and plentiful soybean oil.

The Sheffield™ Myverol 18-06K is an excellent option as a low HLB emulsifier. This can be combined with natural or PEG-based high HLB co-emulsifiers, and as a thickener for cosmetic creams and lotions. Very effective emulsifier. It offers thickening properties for cosmetic emulsions, though not as pronounced as with the use of cetyl and stearyl alcohols (often derived from palm), with a softer feel when rubbed on to the skin.

- Vegan
- Kosher
- Halal
- Sustainable Soy-based GMS
- Low HLB emulsifier
- Soft, non-draggy viscosity builder



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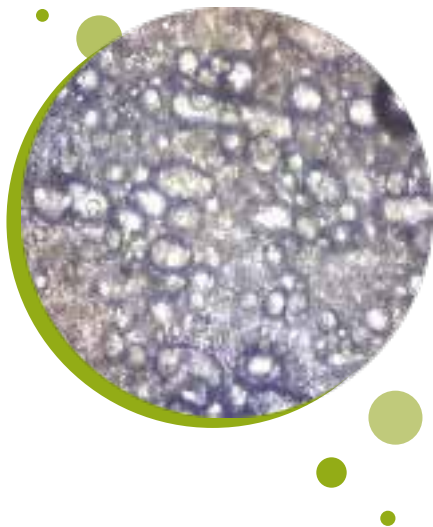
# ACTS-1446: Strong yet Soft

**Description:** A very soft cream is produced using a combination of lipophilic soy-based 'GMS' and hydrophilic anionic 'SSL' food emulsifiers tuned to the requirement of the particular emollient. This durable base will be appropriate under a variety of stressful situations.

**Featuring:** Sheffield™ Myverol 18-06K (co-starring – Sheffield™ Admul SSL 1078K, Sheffield Gum Acacia KLTA-AMF)

## Ingredients

Phase	%	Tradename	INCI	Supplier	Function
A	78.80	Water			
B	15.00	Eastman GEM	Ethylhexyl Palmitate	Eastman	Emollient
B	2.14	Sheffield™ Admul SSL 1078K	Sodium Stearoyl Lactylate	Kerry	Emulsifier
B	2.86	Sheffield™ Myverol™ 18-06K	Glyceryl Hydrogenated Soyate	Kerry	Emulsifier
C	0.20	Sheffield™ Gum Acacia KLTA-AMF	Acacia Senegal Gum	Kerry	Polymer
D	1.00	Germaben II	Propylene Glycol (and) Diazolidinyl Urea (and) Methylparaben (and) Propylparaben	Ashland	Preservative



## Procedure:

1. Heat A to 70° C
2. Heat B to 70° C with mixing until fluid
3. Add phase A to phase B with propeller stirring
4. Add C with propeller stirring
5. Homogenize until glossy
6. Add D when mixture is below 45° C

Viscosity Sp 4, 60 rpm	6000 mPa*s
pH	5.8

Formulation by: ACT Solutions Corp.  
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A top-down photograph showing three glass dishes of varying sizes filled with a thick, white cream. The dishes are arranged on a dark, textured surface, possibly slate or stone. Sprigs of fresh rosemary are scattered around the dishes, adding a natural, organic feel to the composition. The lighting is soft, highlighting the texture of the cream.

## Sheffield™ Admul SSL 1078K

INCI: Sodium Stearoyl Lactylate  
PEG-free High HLB Emulsifier

Product Code: 20623410

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Sheffield™ Admul SSL 1078K is a high HLB anionic emulsifier for creams and lotions. Sodium Stearoyl Lactylate (SSL) has a long history of use in food applications. It can be paired with such nonionic low HLB emulsifiers as Sheffield™ Myverol 18-06K or Sheffield™ Myverol 18-08K to meet the requirement of a specific emollient phase.

Sheffield™ Admul SSL 1078K can be used as alone as a primary emulsifier to provide charge stabilization, provided a small amount of polymer such as Sheffield™ Gum Acacia KLTA AMF is added. It has been observed that using SSL can help emulsions withstand the addition of such short-chain surfactant preservative enhancers as glyceryl caprylate or caprylyl glycol. Formulations that are failing during a preservative change may be improved greatly with the addition of a small amount of Sheffield™ Admul SSL 1078K.

- PEG-free
- High HLB
- Co-emulsifier, primary emulsifier or stabilizer

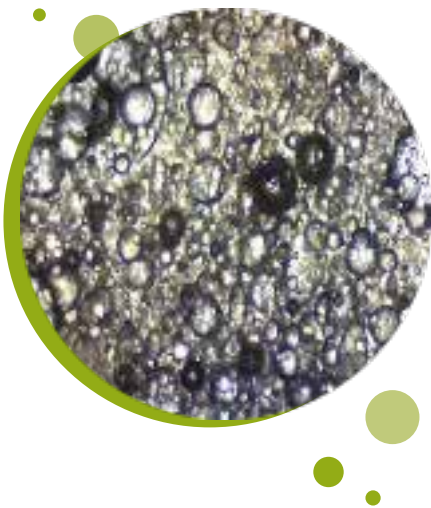
# ACTS-1950: Marvellous Moisture

**Description:** Simple but effective, this formulation combines an emollient which is used in the food industry as a lubricant and moisture barrier and a food emulsifier which builds liquid crystalline phases.

**Featuring:** Sheffield™ Admul SSL 1078K (co-starring – Sheffield™ Myvacet 9-45K, Sheffield™ Gum Acacia KLTA-AMF)

## Ingredients

Phase	%	Tradename	INCI	Supplier	Function
A	15.00	Sheffield™ Myvacet 9-45K	Acetylated Hydrogenated Vegetable Glyceride	Kerry	Emollient
A	5.00	Sheffield™ Admul SSL 1078K	Sodium Stearoyl Lactylate	Kerry	Emulsifier
B	77.00	Water			
C	2.00	Sheffield™ Gum Acacia KLTA-AMF	Acacia Senegal Gum	Kerry	Polymer
C	1.00	Phenonip XB	Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Propylparaben	Clariant	Preservative



## Procedure:

1. Heat phase A and B to 70° C
2. Add phase A to B with propeller
3. Add C at 45° C or below

Viscosity Sp 4, 60 rpm	3330 mPa*s
pH	4.8

Formulation by: ACT Solutions Corp.  
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1-302-525-8110



## Sheffield™ Gum Acacia KLTA-AMF

INCI: Acacia Senegal Gum

Natural Gum with Great Appeal

Product Code: 20625330

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Sheffield™ Gum Acacia KLTA-AMF is a natural polymer for use in creams and lotions. Gum Acacia has a long history of use in food applications. Sheffield™ Gum Acacia KLTA-AMF offers excellent emulsion stabilizing properties, slowing coalescence and creaming through building of zero-shear viscosity and interfacial effects.

It can be used as an alternative to synthetic polymers, or allow for the use of lower amounts of such polymers as xanthan gum, which have aesthetic 'issues' when over-used. The feel contributed by Sheffield™ Gum Acacia KLTA-AMF is subtle, as is the viscosity build, which is handy when looking to enhance the stability of an emulsion without thickening.

- GMO Free
- Kosher
- Halal
- Natural polymer
- Stabilization without thickening
- Subtle, appealing aesthetics

# ACTS-1950: Marvelous Moisture

**Description:** Simple but effective, this formulation combines an emollient which is used in the food industry as a lubricant and moisture barrier and a food emulsifier which builds liquid crystalline phases.

**Featuring:** Sheffield™ Gum Acacia KLTA-AMF

## Ingredients

Phase	%	Tradename	INCI	Supplier	Function
A	2.50	Sheffield™ Gum Acacia KLTA-AMF	Acacia Senegal Gum	Kerry	Polymer
A	0.20	Ketrol CG	Xanthan Gum	CP Kelco	Polymer
A	10.00	Zemea	Propanediol	Dupont Tate & Lyle	Humectant
A	72.30	Water			
B	15.00	EI Octyl Palmitate	Ethylhexyl Palmitate	Essential Ingredients	Emollient



## Procedure:

1. Premix gums and Zemea, add to water and mix with propeller
2. Add B with propeller and mix until uniform
3. Carefully homogenize

Viscosity Sp 2, 60 rpm	262 mPa*s
pH	5.4

Formulation by: ACT Solutions Corp.  
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## Sheffield™ Myvacet 9-45K

INCI: Acetylated Hydrogenated Vegetable Glyceride

Not Your Average Emollient!

Product Code: 20624281

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Sheffield™ Myvacet 9-45K is a vegetable-derived emollient which has been used in the food industry around the world for decades as a moisture barrier, film former, lubricant, and plasticizer. All of these attributes have great appeal for the skin care product formulator.

Perfect applications include sunscreens, daily facial moisturizers, night creams, protective hand creams, and body lotions.

- Moisture barrier
- Film former
- Lipid plasticizer

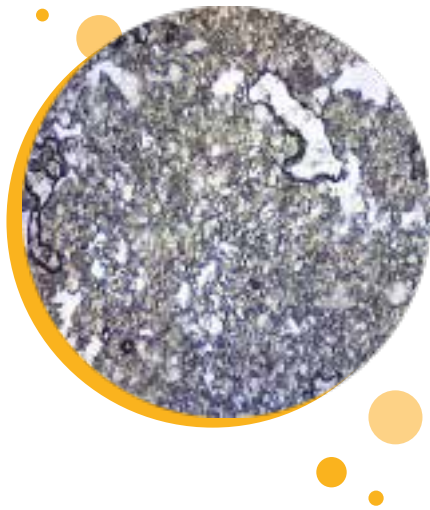
# ACTS-1453: Beautiful Barrier

**Description:** An easy-to-produce cream, highlighting the moisture barrier properties of Sheffield Myvacet™ 9-45K. The Sheffield™ Myvatex 8-60K (Glyceryl Stearate SE) produces a higher viscosity formulation than the Sheffield™ Admul MG 40-04K.

**Featuring:** Sheffield™ Myvacet 9-45K (co-starring – Sheffield™ Myvatex 8-60K, Sheffield™ Gum Acacia KLTA-AMF )

## Ingredients

Phase	%	Tradename	INCI	Supplier	Function
A	3.00	Sheffield™ Myvatex 8-60K	Glyceryl Stearate SE	Kerry	Emulsifier
A	15.00	Sheffield™ Myvacet 9-45K	Acetylated hydrogenated vegetable glyceride	Kerry	Emollient
B	5.00	Zemea	Propanediol	Dupont Tate & Lyle	Humectant
B	74.80	Water			
B	1.00	Sheffield™ Gum Acacia KLTA-AMF	Acacia Senegal Gum	Kerry	Polymer
B	0.20	Keltrol GC	Xanthan gum	CP Kelco	Polymer
B	1.00	Phenonip XB	Phenoxyethanol (and) Methylparaben (and) Ethylparaben (and) Propylparaben	Clariant	Preservative



## Procedure:

1. Mix phase A and heat to 70° C
2. Premix gums and Zemea, add to water
3. Heat phase B to 70° C
4. Add phase A to phase B with propeller stirring
5. Homogenize if not glossy
6. Add C when mixture is below 45° C

Viscosity Sp 4, 6 rpm	11360 mPa*s
pH	6.6

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