



## For the Utmost Versatility

ADM's Stabrium™ lecithin emulsifiers are a key part of our established portfolio of industrial additives. ADM provides consistent, cost-effective, plant-based lecithin for a broad range of industrial applications including: paints and coatings, oil well drilling, plastic and ceramics, release agents, leather tanning and agrochemical emulsions.

**Derived from renewable resources, our Stabrium™ emulsifiers offer a wide variety of functions:**

- **As lubricants and release agents**, between solid phases
- **As wetting and dispersing agents**, between solid and liquid phases
- **As surfactants**, reducing surface tension and the attractive forces between particles, so that solids are more easily dispersed and suspended, in the liquid phase
- **As emulsifying agents**, reducing surface tension between immiscible liquid phases (i.e. oil and water)

**Make your industrial process smoother, faster and more effective with ADM emulsifiers.**

## MULTI-FACETED FUNCTIONALITY FOR INDUSTRIAL PERFORMANCE

Stabrium™ lecithin products function in a variety of industrial applications:



**Oilfield & Drilling**



**Latex Production**



**Paints & Inks**



**Surfactants**



**Flowable Sprays**

## WHY ADM: EMULSIFIERS FOR INDUSTRIAL USE

**Derived from renewable plant-based resources including: soybeans, rapeseed/canola and sunflowers**

**Highly functional in both oil- and water-based applications**

**A vertically integrated, diverse portfolio backed by the largest global supply chain and footprint in lecithin production**

# More Applications, More Benefits

Partner with ADM to gain an edge, for the utmost versatility in your industrial applications. Benefit from our years of experience and R&D technical expertise to solve any performance challenge with custom solutions derived from renewable sources.

Our broad portfolio of Stabrium™ emulsifiers supports even the most challenging of industrial formulations.



## Paints, Coatings, Building Chemicals & Adhesives

- Provides flow control for aqueous systems
- Improves pigment dispersion
- Enhances pigment wetting
- Improves color development
- Improves leveling
- Reduces foaming
- Improves freeze/thaw stability



## Polishes

- Aids in forming the emulsion
- Helps with blending of waxes and polishes
- Increases viscosity to control flowability



## Oilfield & Drilling

- Acts as a thickening agent in drilling muds, increases viscosity
- Improves oil extraction rates
- Acts as oil mud conditioner
- Stabilizes oil mud
- Reduces friction on drill bit
- Reduces maintenance costs



## Lubricants

- Inhibits gumming and corrosion due to moisture in gasoline
- Serves as an antioxidant, anticorrosive and detergent in petroleum applications
- Helps stabilize and form the emulsion
- Acts as a spinning lubricant for cotton and wool



## Flowable Sprays

- Enhances control, reducing wind-drift
- Enhances wetting
- Promotes good emulsion



## Release Formulations for Plastics, Rubber, Fiberglass & Concrete Forms

- Improves separation
- Creates a thin, even barrier
- Reduces surface tension and product loss
- Reduces product loss



## Ceramics

- Reduces energy requirement, lubrication
- Provides internal release
- Increases throughput, reduces downtime



## Leather Tanning

- First known use of lecithin
- Penetrates quickly to provide a uniform layer of oil, as a fatliquor after tanning
- Carries lubricants into skin fiber, as a fatliquor oil-in-water emulsion
- Helps form and stabilize the emulsion

## AVAILABLE OPTIONS:

Stabrium™ Product Name	Product Code*	Specifications / Description
<b>STANDARDIZED FLUID PRODUCTS (IP / NON-GMO AVAILABLE)</b>		
Ag UB	700655	HLB 4 / AI min 60 / Color max 18
Yelkin T	700170	HLB 4 / AI 65-70 / Color max 18
Ag TS	700670	HLB 4 / AI min 62 / Color max 17
Yelkin TS & SS & DS	700160 / 700155 / 700150	HLB 4 / AI min 62 (all) / Color (max 17 – max 14 – max 12)
Adlec	700161	HLB 4 / AI min 62 / Color max 17
Yelkin Gold	700350	HLB 4 / AI min 62 / Color max 14 / PV max 5
Yelkin Canola	800120	HLB 4 / AI min 62
Ag Sunflower	800169	HLB 4 / AI min 60
<b>SPECIALTY FLUID PRODUCTS (IP / NON-GMO AVAILABLE)</b>		
BLV1	700203	HLB 2-4 Low viscosity fluid lecithins designed for ease in spraying at ambient temperatures and ease in dispersing into oil systems.
BLV3	700205	
BLV30	700207	
551	197551	Modified lecithin, which is highly water dispersible and designed specifically as an emulsifier for use in water-based paints.
750	197075	Bio-based surfactant system designed for pigment dispersion in latex and resin paints, coatings and inks.
OFE	197553	Promotes oilwetting of solids and increases the resistance to water contamination in oil-based muds.
Therm 57 & 200	700403 / 700407	HLB 7-10 Emulsifiers with unique properties for both water- and oil-based application with heat resistance (up to 350°F).
Therm WFC	700409	
Yelkin 1018	700402	HLB 10 Specially modified hydroxylated lecithin which is readily water-dispersible with good emulsifying and aeration properties.
PE & PPS	700251 / 700254	Lecithins designed for applications requiring a highly water dispersible product with a high HLB 12.
<b>DEOILED (POWDER) PRODUCTS (IP / NON-GMO AVAILABLE)</b>		
Yelkinol P & F & G	700871 / 700872 / 700873	Acetone free dry powder lecithin with a variety of granulaity for powder systems HLB 7.

\*Product code starting with '8' designates IP/Non-GMO product.

## CLAIMS & CERTIFICATION OPTIONS


FDA Approved as GRAS | EU Permitted | Halal | Organic | Kosher | Clean Label

## SHELF LIFE

**Fluid Soy Lecithin:** 3 years from date of manufacturing

**Fluid Sunflower & Canola Lecithin:** 2 years from date of manufacturing

**Deoiled (powder) Lecithin:** 2 years from date of manufacturing



## Partner with a Global Leader Who Gives You an Edge

With ADM's global production footprint, you benefit from our unique level of vertical integration and energy co-generation.

Since we are able to monitor and control every stage from crop processing and raw material selection right through to the finished product, we assure quality throughout.

### APPLICATIONS EXPERTISE

We leverage our best-in-class analytical, biotech and innovation capabilities to create customized solutions that work for your specific products.

### RELIABLE OPTIONS

We continually invest in world-class quality systems and utilize our knowledgeable, meticulous quality and technical team to ensure the product we send to market is the safest and most reliable.

### SPEED TO MARKET

By leveraging our world-class technical R&D team, application science & technology, and holistic innovation and partnership approach, your finished product can get to market faster.

## ADM DELIVERS FOR YOU

With ADM you have a partner who combines our superior quality, highly functional industrial lecithin with unmatched technical ingenuity and over 85 years of experience. Our extensive technical and scientific expertise gives you an edge in developing safe, high-quality final products. With the largest supply chain and global footprint, and our high processing standards, you are ensured a premium-quality product with the utmost consistency. Count on us to meet any formulation challenge and to deliver for you every time.

Inquire about additional emulsifier solutions. To request samples, [email samples@adm.com](mailto:samples@adm.com).

For technical consultation or support [email SIQA@adm.com](mailto:SIQA@adm.com).

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