Product Description

Mackpro WLW is a very efficacious conditioning agent in which the major emollients found in wheat germ oil are chemically grafted to wheat protein. Due to the cationic charge, this product is highly substantive. Mackpro WLW functions by replacing the natural oils lost by shampooing or cleansing and leaves a silky, non-oily feel to the hair and skin. In hair conditioning, Mackpro WLW has a higher affinity for damaged hair and thus provides an even conditioning effect by coating the portions that you need the most.

Specifications

- **Appearance @ 25 Deg C**: Amber Liquid
- **pH (10% Aqueous)**: 4.5 – 5.5
- **Oven Solids, %**: 34.0 – 38.0
- **Infrared Spectrum**: Matches Standard
- **Ash, %**: 3.0 Max
- **Color Gardner**: 12 Max
- **Total Plate Count, CFU/G**: 100 Max

Chemical Structure

$$\text{RCNH}(\text{CH}_2)_3\text{NCH}_2\text{CHCH}_2\text{X}$$

Where RCO- represents the fatty acids derived from wheat germ oil and X represents hydrolyzed wheat protein.

Typical Properties

- **Specific Gravity, @ 25°C**: 1.057
- **Total Nitrogen, %**: 3.50
- **Preservative System**: Methyl Paraben 0.15%, Propyl Paraben 0.05%, Sodium Benzoate 0.20%

Regulatory

- **Mackpro WLW**
  - TSCA: Exempt
  - EU: Not Listed
  - Japan: Not Listed
  - Korea: Not Listed
  - Australia: Not Listed
  - New Zea: Not Listed
  - Canada: Exempt
  - Phillipp: Not Listed
  - China: Not Listed
  - Swiss: Unknown

Mackpro WLW is not on EPA’s TSCA open inventory and is thus to be used only for exempt applications such as cosmetics.

Principal Uses

- **Conditioning Shampoos**: 0.5% - 3%
- **Conditioning Mousses**: 0.5% - 3%
- **Hair Conditioners**: 1% - 3%
- **Facial and Hand Cleaners**: 1% - 3%

Storage and Handling

Mackpro WLW should be stored in sealed containers below 30°C in a dry place out of direct sunlight. If material becomes hazy after exposure to cold gently heat to 35°C and mix before use. Handle between 25°C – 35°C. Avoid prolonged exposure to heating as this may lead to degradation.

Shelf Life

Shelf life 24 months from date of manufacture.

Packaging

Available in bulk, 40 pound plastic drum, 140 pound drum, 450 pound drums.

WARNING

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This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of the present document and RHODIA is at their disposal to supply any additional information.