



## IntegriGEL O/W-MO

**INCI Name:** Acrylamide/Sodium Acrylate Copolymer, Mineral Oil (Paraffinum Liquidum), Trideceth-6

### Product Description:

**IntegriGEL O/W-MO** is a polymer developed specifically for cosmetic and personal care products. It is an anionic acrylic copolymer dispersed in medicinal grade white oil. It is typically used to thicken aqueous solutions and to stabilize O/W emulsions.

### Product Characteristics:

**IntegriGEL O/W-MO** is a ready to use liquid form polymer which swells immediately in water, at room temperature, **without any neutralization**.

Appearance	White Mobile Liquid
Nature	Non aqueous liquid dispersion of polymer
Viscosity (as supplied)	400 – 1,400 cps (Brookfield LVT, spindle #3, 30 rpm)*
Viscosity (1% solution, pH 6)	10,000 – 15,000 cps (Brookfield RVT spindle #6, 50 rpm)*
pH (1% solution)	5.8 – 6.2*
Shelf Life	12 months

\* indicative values

## Properties

### Rheological profile

Solutions of **IntegriGEL O/W-MO** are pseudoplastic and non thixotropic. The gel structure is easily broken down by shear stress and comes back instantly to its initial value.

### Emulsifying agent

**IntegriGEL O/W-MO** allows the formulation of highly stable O/W emulsions regardless of the oil type and the HLB value. There is no need for heating in the production. Emulsions can be made at room temperature.

### Stabilizing and suspending agent

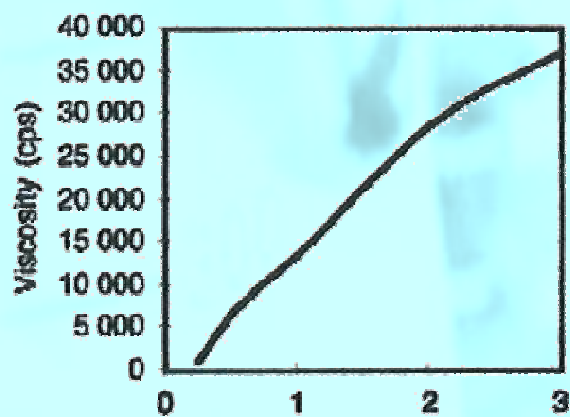
#### **IntegriGEL O/W-MO**

- Stabilizes emulsions: oil droplets are held in suspension as a result of the polymer high yield value.
- Suspension of solid particles: This property is interesting for the formulation of liquid type make up and sunscreen products.



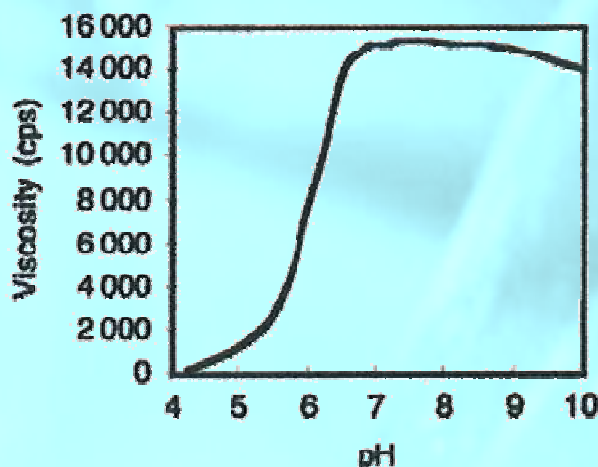
# Integrity Ingredients Corporation

Effect of Concentration



% IntegriGEL O/W-MO

Effect of pH



## Cosmetic Applications

**IntegriGEL O/W-MO** allows to formulate skin care and hair care products.

Formulations are unctuous with a non greasy and non sticky after feel. Rub-in and spreadability of highly thick and compact creams are easier and more uniform.

**IntegriGEL O/W-MO** is characterized by a high versatility in use: it is supplied as a ready to use liquid form (no neutralization, addition at any stage of manufacturing process).

Concentration use depends on required final viscosity (between 0.2 and 4%)

The viscosity and stability of formulations made with **IntegriGEL O/W-MO** are not influenced by high temperatures.

## Toxicological Data

Eye irritation potential (5% solution): very slightly irritant

Skin irritation potential (5% solution): non irritant

## Storage

**IntegriGEL O/W-MO** should be stored at a temperature between 10°C and 40°C. If by accident the product freezes, thaw out by placing the drum in warm water while mixing thoroughly.

Store in original packaging or in any other glass, stainless steel, plastic or epoxy-lined container. Do not store in mild steel, copper or aluminum containers.

## Packaging

60 kg drums

Integrity Ingredients Corporation \* P.O. Box 5040 \* Playa del Rey, CA 90296

Phone (310)782-0282 \* Fax (310)782-0283

email [info@integrityingredientscorp.com](mailto:info@integrityingredientscorp.com) \* [www.integrityingredientscorp.com](http://www.integrityingredientscorp.com)

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