



## IntegriGEL O/W-EHS

**INCI Name:** Sodium polyacrylate (and) Ethylhexyl Stearate (and) Trideceth-6

### **Product Description:**

**IntegriGEL O/W-EHS** is an acrylic based polymer in liquid form developed for cosmetic and personal care products. It is typically used to thicken aqueous solutions and to stabilize emulsions.

### **Product Characteristics:**

**IntegriGEL O/W-EHS** is a **ready to use liquid** with short dissolution time. The polymer swells immediately **without neutralization**. Gels and emulsions can be produced at room temperature.

Appearance	white mobile liquid
Odor	Slightly Acrylic
Active Content	60%
Viscosity (1% solution)	200 - 1200 cps (Brookfield LVT sp.3, 30 rpm)*
pH (1% solution)	6.0. $\pm$ 0.5
Shelf Life	24 months

\* indicative values

### **Properties**

#### ● **Rheology :**

**IntegriGEL O/W-EHS** is a thickening agent for aqueous solutions. These solutions are pseudoplastic and non thixotropic. The gel structure is easily broken-down by shear, and comes back to its initial value.

#### ● **Effect of temperature :**

Solutions of **IntegriGEL O/W-EHS** in water and cosmetic formulations do not show significant changes in viscosity at high temperature.

#### ● **Emulsifying agent :**

**IntegriGEL O/W-EHS** allows the formulation of highly stable O/W emulsions regardless of the oil type and HLP value. Emulsions can be made at room temperature

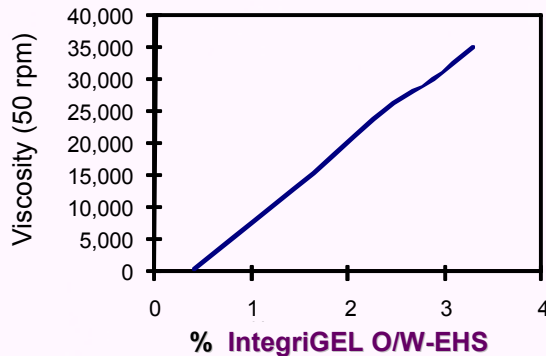
#### ● **Stabilizing agent :**

**IntegriGEL O/W-EHS** is an effective agent for emulsion stabilization and stable suspension of solid particles.

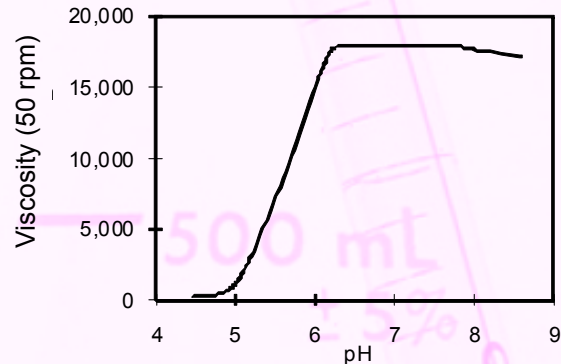


# Integrity Ingredients Corporation

**Effect of Concentration**



**Effect of pH**  
**1.7% IntegriGEL O/W-EHS**



## Cosmetic Applications

### IntegriGEL O/W-EHS

Enables the formulation of unctuous, non greasy and non sticky products

This polymer is pseudoplastic, therefore it makes for easier spreading of thick and compact creams and allows uniform application of the products on hair and skin.

IntegriGEL O/W-EHS is used in hair care products (conditioners, creams....) and skin care products (creams, lotions, make-up remover, sunscreen products...)

IntegriGEL O/W-EHS is easy to use:

- As supplied in liquid form
- Can be added at any phase of the production process.
- Emulsions can be made at any temperature.
- **No neutralization is required.**

## Toxicological Data

Evaluation of eye irritation potential :

- in-vitro tests (cells culture)
- results : very low eye irritation

Evaluation of skin irritation potential :

- test on human volunteers
- results : no skin irritation potential

## Storage

IntegriGEL O/W-EHS should be stored at a temperature between 0°C and 35°C in original packaging.

## Packaging

60 kg drums

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