

TECHNICAL DATA SHEET

ISO 9001: 2015 CERTIFIED
DATE OF REVISION: MAY-2021

LEEPOL™ HCO K-140

Description:

LEEPOL™ HCO K-140 is a nonionic solublizer and emulsifying agent obtained by reacting 1 mole of hydrogenated castor oil with 40 mole of ethylene oxide. The main constituent of LEEPOL™ HCO K-140 is glycerol polyethylene glycol oxystearate, which, together with fatty acid glycerol polyglycol esters, forms the hydrophobic part of the product. The hydrophilic part consists of polyethylene glycols and glycerol ethoxylate.

Leepol™ HCO K-140 is a white to pale yellow liquid at 25°C. The HLB value lies between 14 and 16. Particular features are that it is odorless and tasteless.

Typical Applications:

- Solubilizer
- Dissolution Improver
- Emulsifier
- Foam Stabilizer
- Moisturizer
- Transparency Improver
- Volatility Retardment
- Film Former
- Masking Agent
- Adhesion Reducer
- Aerosol Formulations

Typical Physical Properties:

Parameter	Typical Properties
Appearance	White to pale yellow liquid
Congealing temperature	Between 16°C to 26°C
Hydroxyl value	Between 57 to 80
Acid Value	NMT 2.0
Water	NMT 3%

Regulatory status united States (USP/NF)

Polyoxyl 40 hydrogenated castor oil

Europe (Ph. Eur.)

Macroglycerol Hydroxystearate

Advantages:

- Highly efficient solubilizer
- Almost tasteless
- GRAS status
- Excellent solubilizer for vitamins, essential oils and certain drugs
- O/W emulsifier and emulsion stabilizer for fatty acids & alcohols
- Cost effective

Toxicity:

An investigation of the raw material gave no indication of harmful effects to health if the substance is used for the stated applications and concentrations. Due to the large variety of applications and possible combinations with other products, users are responsible for their own safety assessment of their products.

Recommendations for product handling and sampling:

For proper product handling and sampling homogenization of the drum content is necessary. The new drums allow the repeated liquefaction of their content at around 60°C. It is recommended to use electrical drum heaters, heating covers or a heating chamber.

Packaging:

20 kgs & 50 kgs in plastic carboys.

Storage:

The drums in which Leepol™ HCO K-140 is stored should be kept tightly closed. The method of production employed for Leepol™ HCO K-140 ensures that it is practically sterile. If the containers are repeatedly opened, microorganisms may grow in the product, particularly if the equipment used is not sterile.

Shelf life:

In the unopened original drums, the retest period for Leepol™ HCO K-140 is 2 years at room temperature (20-25°C).