TECHNICAL INFORMATION

Thorcowet HC

DESCRIPTION: Thorcowet HC is a powerful invert emulsifier. It is an effective thickener and emulsifier for a variety of oils and is useful in the development of micro-emulsion detergent and solvent-based cleaners.

Thorcowet HC can also be used to formulate water extended asphalt coatings products. Addition of 5-20 percent by weight of Thorcowet HC into an asphalt product allows for a stable inverse emulsion of water in asphalt to be formed at up to 40 percent by weight water without impacting coating properties. Significant reductions in cost and VOC can be achieved.

CHEMICAL NAME: **Soyamide DEA**

Physical Properties	Typical Value
Appearance	Clear Amber Liquid
Gardner Color	4 - 10
Solubility 5% @ 25^0 C	Translucent to Soluble & Visc
pH (1 % Solution)	9.5 – 10.5
Specific Gravity (25^0 C)	0.99 G/L
Amine Value	20 - 40
% Activity	100

EMULSIFICATION/DETERGENCY

An example of the outstanding water-in-oil (invert) emulsifying properties of Thorcowet HC is as follows:

By combining 20 parts (by wt.) of Thorcowet HC with 80 parts (by wt.) of solvent phase and slowly adding water with good agitation and shear, a stable water-in-oil emulsion can be prepared containing an unusually high percentage of water. As the water concentration is increased, the emulsion becomes more viscous, however does not invert to an oil-in-water emulsion until the concentration of oil is below 8% (by wt.).

The excellent oil emulsification properties of this low to moderate foaming surfactant suggest its use in degreasers and other hard surface cleaners.

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