

## PRODUCT DATA SHEET

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### **SO-CHEM D – 301 DEMULSIFIER**

#### **GENERAL DESCRIPTION**

**SO-CHEM D-301** water-in-oil **Demulsifier** is a concentrated surface active agent designed to enhance the separation of water in crude oil in produced crude oil treating systems. It is a polyoxethylene glycol with phenolic resin in an aromatic solvent base.

#### **APPLICATION**

**SO-CHEM D-301 Demulsifier** typically provides the following treating characteristics:

1. Extremely fast water drop.
2. Minimum Sludging.
3. Clean Top Oil.
4. Prevents interface pad build-up.
5. Produces clean effluent water.
6. Enhances the flow of viscous crudes

For maximum effectiveness in all treating systems, the chemical should be added as far upstream from the treating vessel as possible, so that maximum agitation and contact time is provided. Agitation is necessary for thorough mixing of the chemical with the emulsion, thereby aiding flocculation and helping promote coalescence. The amount of demulsifier required will depend on the type of production and treating system. For most systems, the amount of demulsifier required will be from 5 to 200 ppm. More complex systems and some enhanced oil recovery projects e.g. heavy oil and steam flood, may require as high as several thousand ppm.

The conventional method of applying **SO-CHEM D-301 Demulsifier** blend to a system is injection at a predetermined ratio into the well fluids, at or near the wellhead, using a chemical proportioning pump. The flow through the line provides mixing of the chemical into the emulsion and encourages coalescence of the water droplets as well as reducing the viscosity.

**SOUTHERN CHEMICALS LIMITED**

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Experience will dictate the precise quantity of chemical to be used. So-Chem chemical personnel can advise on treatment and application volumes.

**TYPICAL PHYSICAL PROPERTIES:**

Specific Gravity	- 0.9069
Flash Point	- 128° F
Viscosity	- 7.944Cst
PH	- 7.0
Appearance	- Brown
Solubility in Water:	- Emulsifiable
Solubility in Organic Solvents:	- Soluble in aromatic solvents
Stability against acids:	- Limited
Stability against bases:	- Unstable

**HANDLING:**

**SO-CHEM D-301 Demulsifier** is an industrial chemical. Observe the warning label on product container. Normal precautions for industrial chemicals apply. For detailed information, consult a Safety Data Sheet, available on request.

**AVAILABILITY:**

**SO-CHEM D-301 Demulsifier** is available in 55 gallon drums from Southern Chemicals Limited, #2 Tarran Industrial Estate, La Romain, San Fernando.

**REVIEW:**

This Product Data Sheet shall be reviewed as necessary.

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