

## PRODUCT DATA SHEET

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### **SO-CHEM D – 14P DEMULSIFIER/ ASPHALTENE DISPERSANT**

#### **GENERAL DESCRIPTION**

**SO-CHEM D-14P** water-in-oil **Demulsifier/Asphaltene Dispersant** is a concentrated, surface active agent designed to enhance the separation of water and unrefined crude oil in produced crude oil treating systems. It also exhibits strong asphaltene dispersant properties in heavy crude oil production. It is composed of a phenolic resin in an aromatic solvent.

**SO-CHEM D-14P Demulsifier/Asphaltene Dispersant** 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. Disrupts emulsions which are stabilized by Asphaltene, thereby giving the product a dual purpose of Demulsifier and Asphaltene dispersant.
6. Reduces viscosity thus enhancing production of low mobility crude.
7. Regular emulsion breaker for both primary and secondary emulsion.
8. Recondition formation particles to a water – wet state.
9. Emulsion treatment of steam flood production crude

#### **APPLICATION**

For maximum effectiveness as a demulsifier in all treating systems, the chemical should be added as far upstream of the treating system as possible, so that maximum agitation and contact time is provided. Agitation is necessary for thorough interaction of chemical with the emulsion, thereby aiding flocculation and helping promote coalescence. The volume of demulsifier required will depend on the volume of production and the configuration of the treating system.

**SOUTHERN CHEMICALS LIMITED**

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For most systems, the amount of demulsifier required is typically in the range of 20ppm to 200ppm. More complex systems and some enhanced oil recovery projects may require significantly higher treatment rates.

The conventional method of applying **SO-CHEM D-14P Demulsifier/Asphaltene Dispersant** to a system is via injection at a predetermined ratio into the well fluids, at or near wellhead, using a chemical metering pump. The turbulence of the flow through the line provides mixing of demulsifier and emulsion which encourages coalescence of the water droplets.

**SO-CHEM D-14P** when used as an asphaltene dispersant aids in rectifying formation damages. When applied via squeeze treatment into the formation it can reduce the number of well interventions and stimulate oil production. The volume required for effective treatment will be dependant upon specific well conditions and specifications.

The product also exhibits dual demulsifier/dispersant functions which would alleviate near-wellbore emulsions without negatively impacting crude oil dehydration.

So-Chem chemical personnel can advise on treatment and application volumes.

**TYPICAL PHYSICAL PROPERTIES:**

Specific Gravity	- 0.9278
Flash Point	- 116 °C
Viscosity@70 °F	- 28.5 CPS
PH	- 7.5- 8.3
Solubility	- Oil Soluble/ Water Dispersible
Appearance	- Brown Liquid

**HANDLING:**

Normal precautions for handling industrial chemicals should be observed. Please refer to Safety Data Sheet for detailed information.

**AVAILABILITY:**

**SO-CHEM D-14P Demulsifier/Asphaltene Dispersant** is available from Southern Chemicals Limited, # 2 Tarran Industrial Estate, La Romain, San Fernando in bulk deliveries (tote tanks) or 55 gall drums.

**REVIEW:**

This Product Data Sheet shall be reviewed as necessary.

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