

## PRODUCT DATA SHEET

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### **SO-CHEM D-50 W VISCOSITY REDUCER**

#### **GENERAL DESCRIPTION**

**SO-CHEM D-50 W VISCOSITY REDUCER** is a specially formulated aqueous product that can be used as a surfactant to treat flow problems associated with high viscosity crudes. It can be applied in both downhole and surface equipment. It has the property of increasing the mobility of heavy crude oil especially in crude containing water cuts of > 20.0%. The product has the capability to reduce back pressure on running equipment including production wells, flowlines and transmission pumps.

#### **RECOMMENDED USES**

**SO-CHEM D-50 W Viscosity Reducer** for downhole application can be injected directly into the gas stream of wells (gas lift wells) or into the casing of pumping wells. This allows the product to contact and intimately mix with the heavy oil. This reduces the viscosity and allows the crude to travel up the tubing and flowlines.

Viscosity reductions of up to 70%- 90.0% have been achieved in downhole treatment along with flowline pressure drops of > 50%.

#### **APPLICATION**

**SO-CHEM D-50 W Viscosity Reducer** can be injected between 500 - 4000 ppm for field application based on production rates. This injection rate can be further optimized during the field trial. Experience will dictate the quantity of chemicals to be used based on product performance derived from the results obtained.

So- Chem Technical Personnel can advise on treatment and application volumes.

**SOUTHERN CHEMICALS LIMITED**

1 - 2 Tarran Industrial Estate La Romain

TEL NO: ((868) 230- 6081

E-mail: [sochemltd@flowtrinidad.com](mailto:sochemltd@flowtrinidad.com)/[sochemltd@hotmail.com](mailto:sochemltd@hotmail.com)

**TYPICAL PHYSICAL PROPERTIES:**

Specific Gravity	- Approx. 1.0203
Boiling Point	- > 200 °F
Vapor Density	- 1.56 KPa
Pour Point	- 0.6 ° C
Flash Point	- > 200 °F
Viscosity	- < 1.27 mPa.s
PH	- 7.5 - 8
Appearance	- Colorless Liquid
Solubility in Water:	- Soluble
Solubility in Organic Solvents:	- Insoluble in aromatic solvents
Stability against acids:	- Limited
Stability against bases:	- Stable

**HANDLING:**

**SO-CHEM D-50 W Viscosity Reducer** is an industrial chemical. Observe the warning label on product container. Normal precautions for industrial chemicals apply. For detailed information consult the Safety Data Sheet which is available on site or contact Southern Chemicals Limited immediately.

**AVAILABILITY:**

**SO-CHEM D-50 W Viscosity Reducer** 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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