

## **PRODUCT DATA SHEET**

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### **SO-CHEM CM - 201 PARAFFIN INHIBITOR/CRYSTAL MODIFIER**

#### **GENERAL DESCRIPTION**

**SO-CHEM CM-201 PARAFFIN INHIBITOR/CRYSTAL MODIFIER** is a liquid, organic, oil-soluble chemical formulation for use in crude oil and condensate to control paraffin wax deposition. It is a mixture of ester and amide derivatives of substituted polycarboxylic acids. It should be handled with the same precautions used for industrial solvents and surfactants. Refer to SDS (section 7& 8) for detailed information

#### **RECOMMENDED USES**

The costs of crude oil production and transportation can be greatly improved by the use of **SO-CHEM CM-201**. **SO-CHEM CM-201** cold flow improver has been developed to provide better pump ability and reduced flow resistance for crude oils in production and pipeline operations. This product is used where temperature drop would cause reduction in viscosity, and increased flow resistance which leads to plugging of flowlines and pipelines.

**SO-CHEM CM-201** prevents the crystallization of paraffin wax deposits because of its surface active and penetrative properties. It can act in several ways in a system. First, it removes components in a system which acts as nuclei for paraffin crystal formation. Secondly the product forms a film around paraffin molecules which prevents them from coagulating. The product therefore displays excellent characteristics for the inhibition of paraffin formation in crude oil production systems.

An application of special importance is well-head injection to facilitate production of high pour-point crude oils. With responsive crudes, effective pour point reductions of >20° F have been observed.

### APPLICATION

**SO-CHEM CM-201** can be added to crudes at any point in the crude oil production system, however, maximum efficiency is obtained when the addition is made to warm or hot crude oil.

Wax crystals grow in crude oils as the temperature of the crude oil decreases. With the addition of cold flow improver to crude oils improves treating efficiency.

Application of **SO-CHEM CM-201** at or near the cloud point of the crude oil usually enhances the efficiency of the dehydration process.

A treatment procedure would be de-waxing well by mechanical or chemical method, then introducing continuous treatment program with **SO-CHEM CM-201**. The dosage of **SO-CHEM CM-201** would be in the range of 100ppm – 500 ppm to prevent crystallization.

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:**

Appearance	-	Brown Liquid
Density, 25 °C	-	Approximately 872.2 kg/m <sup>3</sup>
Viscosity, 25 °C	-	65.371Cst @ 25° C
Cloud Point	-	4.4 °C
Pour Point	-	-10.0 °C
Solubility	-	Oil Soluble / Water dispersible
PH	-	7.12

### **HANDLING:**

The handling of **SO-CHEM CM-201** should create no problems. Normal precautions for handling industrial chemicals should be observed.

### **AVAILABILITY:**

**SO-CHEM CM-201 Paraffin Inhibitor/Crystal Modifier** is available ex-stock from Southern Chemicals Limited, # 2 Tarran Industrial Estate, La Romain, San Fernando.

### **REVIEW:**

This Product Data Sheet shall be reviewed as necessary.