



Conlen Surfactant Technology

Specialty Chemical Manufacturing, Marketing, & Distribution



Lubricants and Wets Series

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Conlen Surfactant Technology

Specialty Chemical Manufacturing, Marketing, & Distribution

CST-3051	Modifier or Wet	Modified glycerin
CST-3091	Lubricant and Detergent	Fatty alkanolamide
CST-3151	Lubricant	Sterically hindered amide / ester
CST-3171	Lubricant and Detergent	Modified cocoamide
CST-3191	Oil Wetting Agent	Sterically hindered amide / ester
CST-3406	Non-ionic Surfactant	NP-6
CST-3409	Non-ionic Surfactant	NP-9
CST-3410	Surfactant Intermediate	Tallow amine + 5 EO's
CST-3415	Surfactant Intermediate	Tallow amine + 15 EO's
CST-3420	Surfactant Intermediate	Tallow amine + 20 EO's
CST-3433	Emulsifier, Stabilizer, and Dispersing Agent	Tallow diamine + 3 EO's
CST-3435	Emulsifier, Stabilizer, and Dispersing Agent	Tallow diamine + 5 EO's
CST-3440	Emulsifier, Stabilizer, and Dispersing Agent	Tallow diamine + 10 EO's
CST-3643	Surfactant Intermediate	Castor oil + 36 EO's
CST-3770	Salt Dispersant and Hydrotrope	Sulfonate
CST-3780	Hydrotrope	Sulfonate
CST-3790	Coating or Anti-agglomerant for clay or coal	Sulfonate
CST-3801	Lubricant	Fatty alkanolamide

Lubricants and Wets Series



CST-3091 Lubricant and Detergent

Generic Description

CST-3091 is a modified cocoamide DEA.

General Information

CST-3091 is recommended for use during drilling operations where it lubricates the well and reduces the frequency of bit-balling. This aids in penetration and reduces the chance of a stuck pipe.

Recommended Application

The suggested application rate is 2 to 3 gallons of drilling mud detergent, for which a typical formulation and typical properties are given below, per 100 barrels of drilling mud. CST-3091 can also be used as rig cleaner.

Drilling Mud Detergent

Parts By Weight

Water	94.0
Sodium Tripolyphosphate*	1.0
CST-3091	5.0

Typical Physical Properties

Appearance	Clear Amber Liquid
pH, 5%	8-10
Density, (lbs/Gal)	8.9
Flash Point, °C (°F)	>93 (>200)
Viscosity, 25%	>1300
Solubility, 10% in:	
Water	Gel
Isopropanol	Soluble
Kerosene	Dispersible
Xylene	Soluble

Shipping and Handling

CST-3091 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of CST-3091.

UN3082, Environmentally Hazardous Substances, Liquid, N.O.S.

TDS-0697

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CST-3151 Lubricant

Generic Description

CST-3151 sterically hindered amide / ester

General Information

CST-3151 is one of CST's high performance line of drilling fluid additives. CST-3151 is a highly efficient drilling mud detergent and is recommended for use during drilling operations where it lubricates the wellbore and reduces the frequency of bit-balling. This aids in penetration and reduces the chance of stuck pipe yielding a more efficient drilling operation. CST-3151 is also suitable for application as a general purpose rig cleaner.

Suggested Formulation

CST-3151 is a concentrate and should be blended prior to use. It is compatible with sodium tripolyphosphate and other major detergent building additives. CST-3151 typical treatment rate is 2 to 3 gallons of drilling mud detergent per 100 barrels of drilling mud.

A standard drilling mud detergent formulation is:

Water	94%
Sodium Tripolyphosphate	1%
CST-3151	5%

Typical Physical Properties

Appearance, 25°C	Amber Liquid
Brookfield Viscosity (@77F)cps	1300 cps
Density, 25°C	8.9
Flash Point, °C	>93.3
Odor	Mild
pH, 5%	8-10
Pour Point	0.0C
Viscosity, 25%	>1300
Water Content	0.5%
Solubility, 10% in:	
Aromatic 150	Soluble
Isopropanol	Soluble
Kerosene	Dispersible
Water	Gel
Xylene	Soluble
Solubility, 50% in:	
Aromatic 150	Soluble
Isopropanol	Soluble
Kerosene	Soluble
Water	Gel
Xylene	Soluble

Shipping and Handling

CST-3151 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of CST-3151.

Bulk: UN3257, Elevated temperature liquid, N.O.S.

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CST-3171 Lubricant and Detergent

Generic Description

CST-3171 is a modified cocoamide DEA.

General Information

CST-3171 is recommended for use during drilling operations where it lubricates the well and reduces the frequency of bit-balling. This aids in penetration and reduces the chance of a stuck pipe.

Recommended Application

The suggested application rate is 2 to 3 gallons of drilling mud detergent, for which a typical formulation and typical properties are given below, per 100 barrels of drilling mud. CST-3171 can also be used as rig cleaner.

Drilling Mud Detergent	Parts By Weight
Water	94.0
Sodium Tripolyphosphate*	1.0
CST-3171	5.0

Typical Physical Properties

Appearance	Clear Amber Liquid
pH, 5%	8-10
Density, (lbs/Gal)	8.9
Flash Point, °C (°F)	>93 (>200)
Viscosity, 25%	>1300
Solubility, 10% in:	
Water	Gel
Isopropanol	Soluble
Kerosene	Dispersible
Xylene	Soluble

Shipping and Handling

CST-3171 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of CST-3171.

Bulk: NA3082, Other Regulated Substances,, Liquid, N.O.S.

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CST-3191 Lubricant

Generic Description

CST-3191 sterically hindered amide / ester

General Information

CST-3191 is one of CST's high performance line of drilling fluid additives. **CST-31591** is a highly efficient drilling mud detergent and is recommended for use during drilling operations where it lubricates the wellbore and reduces the frequency of bit-balling. This aids in penetration and reduces the chance of stuck pipe yielding a more efficient drilling operation. **CST-3191** is also suitable for application as a general purpose rig cleaner.

Suggested Formulation

CST-3191 is a concentrate and should be blended prior to use. It is compatible with sodium tripolyphosphate and other major detergent building additives. **CST-3191** typical treatment rate is 2 to 3 gallons of drilling mud detergent per 100 barrels of drilling mud.

A standard drilling mud detergent formulation is:

Water	94%
Sodium Tripolyphosphate	1%
CST-3191	5%

Typical Physical Properties

Appearance, 25°C	Amber Liquid
Brookfield Viscosity (@77F)cps	1300 cps
Density, 25°C	8.9
Flash Point, °C	>93.3
Odor	Mild
pH, 5%	8-10
Pour Point	0.0C
Viscosity, 25%	>1300
Water Content	0.5%
Solubility, 10% in:	
Aromatic 150	Soluble
Isopropanol	Soluble
Kerosene	Dispersible
Water	Gel
Xylene	Soluble
Solubility, 50% in:	
Aromatic 150	Soluble
Isopropanol	Soluble
Kerosene	Soluble
Water	Gel
Xylene	Soluble

Shipping and Handling

CST-3191 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3191**.

Non-Regulated / Non-Hazardous

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CST-3406 Non-Ionic Surfactant

Generic Description

CST-3406 is a non-ionic surfactant, derived from the condensation of Nonylphenol and Ethylene Oxide. Due to the hydrophobic-hydrophilic balance; it is dispersible in water, compatible with oily systems and does not ionize water.

General Information

CST-3406 is stable in average alkaline or acid systems and is compatible with anionic, cationic, and amphoteric compounds.

Recommended Application

CST-3406 can be used as an emulsifying, dispersing agent, and detergent in the petroleum industry.

Typical Physical Properties

Appearance, 25°C	Clear Liquid
pH, 5%	6-8
Density, (lbs/Gal)	
Flash Point, °C (°F)	

Shipping and Handling

CST-3406 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3406**.

Non-Regulated / Non-Hazardous

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CST-3409 Non-Ionic Surfactant

Generic Description

CST-3409 is a non-ionic surfactant, derived from the condensation of Nonylphenol and Ethylene Oxide. Due to the hydrophobic-hydrophilic balance; it is highly compatible with water, xylene, and glycoethers.

General Information

CST-3409 has excellent wetting, detergency, dispersing and emulsifying properties. **CST-3409** does not ionize in water, stable in average alkaline and acid systems, compatible with anionic, cationic and amphoteric compounds.

Recommended Application

CST-3409 can be used as an emulsifying, dispersing agent, and detergent in the petroleum industry.

Typical Physical Properties

Appearance, 25°C	Clear Liquid
pH, 5%	6-8
Density, (lbs/Gal)	
Flash Point, °C (°F)	

Shipping and Handling

CST-3409 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3409**.

Non-Regulated / Non-Hazardous

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CST-3415 Surfactant Intermediate

Generic Description

CST-3415 is a non-ionic surfactant derived from Ethoxylated Fatty Amines (Tallow Amine and EO). Due to the amine presence, these compounds has slight cationic character.

Typical Physical Properties

Appearance, 25° C	Clear Liquid
Color, Gardner	<10
pH, (1% in IPA/Water 70:30)	9-10.5
Equivalent Weight (g/eq)	895-955
% Humidity	<1

General Information

CST-3415 is a penetrating, emulsifying, stabilizing, solubilizing, dispersing, anti-electrical static agent. It is useful in the, Leather, Textile, Industries.

CST-3415 is compatible with anionic, cationic, amphoteric, and non-ionic compounds. They are highly hydrophilic and biodegradable compounds.

Shipping and Handling

CST-3415 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3415**.

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CST-3420 Surfactant Intermediate

Generic Description

CST-3420 is a non-ionic surfactant derived from Ethoxylated Fatty Amines (Tallow Amine and Oleyl Amine with 20 moles of EO). Due to the amine presence, these compounds have a slight cationic character.

General Information

CST-3420 is a penetrating, emulsifying, stabilizing, solubilizing, dispersing, anti-electrical static agent. They are useful in the Cosmetic, Leather, Textile Industries. They are compatible with anionic, cationic, amphoteric, and non-ionic compounds. **CST-3420** is highly hydrophilic and biodegradable compounds.

Application Recommendations

Textile:	Process	Action
	Cleaning	Anti-Electric Static
	Scouring	Softening
	Dyeing	Lubricity
Cosmetic:	Action	
	Lubricity	Emulsifying
	Solubilizing	Dispersing
	Conditioning	Viscosity Promoter

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	9.87
Flash Point, °F (TCC)	>200
Humidity, % (Karl Fischer)	1.0 max
pH, (1% in H₂O:IPA 30:70)	9.0-
	10.5
Solubility	
Water	Soluble
Ethyl Alcohol	Soluble
Trichloroethylene	Soluble
Ethylene Glycol	Insoluble
Gas Naphtha	Insoluble
Kerosene	Insoluble
Toluene	Insoluble

Shipping and Handling

CST-3420 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3420**

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CST-3433 **Emulsifier, Stabilizer, &** **Dispersing Agent**

Generic Description

CST-3433 is a non-ionic surfactant, ethoxylated tallow diamine with 3 moles E.O.

General Information

CST-3433 is an emulsifying, stabilizer, dispersing, anti-static agent, compatible with anionic, cationic, amphoteric, and non-ionic compounds, and is highly hydrophilic compound. With good compatibility in water based formulations. Due to the amine presence, has a slight cationic character

Application Recommendations

CST-3433 is used in the following applications;

Textile:

Cleaning, dyeing, dispersing, wetting, softening

Emulsifying Agent:

Pesticides and lubricant oils

Stabilizing Agent:

Latex

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	
Flash Point, °F (TCC)	>200
Moisture, % (Karl Fischer)	1.0 Max
pH, (1% in H₂O:IPA 70:30)	11.5 -
12.5	
Solubility	
Water	Soluble
Ethyl Alcohol	Soluble
Trichloroethylene	Soluble
Ethylene Glycol	Insoluble
Gas Naphtha	Insoluble
Kerosene	Insoluble
Toluene	Insoluble

Shipping and Handling

CST-3433 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3433**

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CST-3435 **Emulsifier, Stabilizer, &** **Dispersing Agent**

Generic Description

CST-3435 is a non-ionic surfactant, ethoxylated tallow diamine with 5 moles E.O.

General Information

CST-3435 is an emulsifying, stabilizer, dispersing, anti-static agent, compatible with anionic, cationic, amphoteric, and non-ionic compounds, and is highly hydrophilic compound. With good compatibility in water based formulations. Due to the amine presence, has a slight cationic character

Application Recommendations

CST-3435 is used in the following applications;

Textile:

Cleaning, dyeing, dispersing, wetting, softening

Emulsifying Agent:

Pesticides and lubricant oils

Stabilizing Agent:

Latex

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	
Flash Point, °F (TCC)	>200
Moisture, % (Karl Fischer)	1.0 Max
pH, (1% in H₂O:IPA 70:30)	11.5 -
12.5	
Solubility	
Water	Soluble
Ethyl Alcohol	Soluble
Trichloroethylene	Soluble
Ethylene Glycol	Insoluble
Gas Naphtha	Insoluble
Kerosene	Insoluble
Toluene	Insoluble

Shipping and Handling

CST-3435 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3435**

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CST-3440 **Emulsifier, Stabilizer, &** **Dispersing Agent**

Generic Description

CST-3440 is a non-ionic surfactant, ethoxylated tallow diamine with 10 moles E.O.

General Information

CST-3440 is an emulsifying, stabilizer, dispersing, anti-static agent, compatible with anionic, cationic, amphoteric, and non-ionic compounds, and is highly hydrophilic compound. With good compatibility in water based formulations. Due to the amine presence, has a slight cationic character

Application Recommendations

CST-3440 is used in the following applications;

Textile:

Cleaning, dyeing, dispersing, wetting, softening

Emulsifying Agent:

Pesticides and lubricant oils

Stabilizing Agent:

Latex

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	
Flash Point, °F (TCC)	>200
Moisture, % (Karl Fischer)	1.0 Max
pH, (1% in H₂O:IPA 70:30)	11.5 -
12.5	
Solubility	
Water	Soluble
Ethyl Alcohol	Soluble
Trichloroethylene	Soluble
Ethylene Glycol	Insoluble
Gas Naphtha	Insoluble
Kerosene	Insoluble
Toluene	Insoluble

Shipping and Handling

CST-3440 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3440**

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CST-3643 Surfactant Intermediate

Generic Description

CST-3643 castor oil + 36 moles (EO)

General Information

CST-3643 intermediate dispersant is an oxyalkylated organic oil for use in water-soluble corrosion inhibitor/surfactant blends. Unlike non-ionic surfactants, this product oil-wets steel surfaces and helps form a protective impervious film for corrosion inhibition.

CST-3643 is a highly surface active intermediate with excellent detergency and water solubility.

CST-3643 is readily compatible with other water treating cationics and nonionics.

Recommended Application

CST-3643 is primarily recommended for improving water dispersibility in corrosion inhibitor formulations.

Typical use of **CST-3643** dispersant concentrations should be 1-5 percent of the formulation.

Typical Physical Properties

Form , 70°F (21°C)	Liquid
Density , #/gal	8.28
Flash Point ,	200°F
Pour Point ,	83°F
pH , 5%	10.6-11.6
Solubility	
Isopropanol	Soluble
Water	Dispersible
Heavy Aromatic Solvent	Dispersible

Shipping and Handling

CST-3643 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3643**

Non-Regulated / Non-Hazardous

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CST-3770 **Salt Dispersant and** **Hydrotrope**

Generic Description

CST-3770 is a 40% active, aqueous solution of hydrotropes.

General Information

CST-3770 hydrotrope product generate essentially no foam and no wetting action and have minimal influence on surface tension. **CST-3770** is an excellent way to solubilize complex formulas, elevate cloud points and control viscosity.

Application Recommendations

CST-3770 find application in the following

- Hydrotrope
- Coupling agent
- Freeze/thaw stabilizer
- Solubilizing agent
- Liquid detergents

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	9.91
Flash Point, °F (TCC)	>200
Pour Point, °F	68
pH, (as is)	7.5-9.0
Viscosity, cSt @ 25°C	5.6

Shipping and Handling

CST-3770 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3770**

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CST-3780 **Salt Dispersant and** **Hydrotrope**

Generic Description

CST-3780 is a 40% active, aqueous solution of hydrotropes.

General Information

CST-3780 hydrotrope product generate essentially no foam and no wetting action and have minimal influence on surface tension. **CST-3780** is an excellent way to solubilize complex formulas, elevate cloud points and control viscosity. **CST-3770** is a very effective hydrotrope with broad formulation compatibility.

Application Recommendations

CST-3780 finds use in the following applications:

- Industrial Cleaners
- Metal Preparation & Working

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	9.82
Flash Point, °F (TCC)	>200
Crystallization, °F	45
pH, (as is)	7.0 – 9.0
Soluble In, Water	Soluble

Shipping and Handling

CST-3780 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-3780**

Non-Regulated / Non-Hazardous

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CST-3801 Lubricant and Detergent

Generic Description

CST-3801 is a modified cocoamide DEA.

General Information

CST-3801 is recommended for use during drilling operations where it lubricates the well and reduces the frequency of bit-balling. This aids in penetration and reduces the chance of a stuck pipe.

Recommended Application

The suggested application rate is 2 to 3 gallons of drilling mud detergent, for which a typical formulation and typical properties are given below, per 100 barrels of drilling mud. CST-3091 can also be used as rig cleaner.

Drilling Mud Detergent

	Parts By Weight
Water	94.0
Sodium Tripolyphosphate*	1.0
CST-3091	5.0

Typical Physical Properties

Appearance	Clear Amber Liquid
pH, 5%	8-10
Density, (lbs/Gal)	8.9
Flash Point, °C (°F)	>93 (>200)
Viscosity, 25%	>1300
Solubility, 10% in:	
Water	Gel
Isopropanol	Soluble
Kerosene	Dispersible
Xylene	Soluble

Shipping and Handling

CST-3801 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of CST-3801.

Non-Regulated / Non-Hazardous

TDS-0697

The information in this bulletin is believed to be accurate, but all recommendations are made without warranty, since the conditions of use are beyond the manufacturer's control. The listed properties are illustrative only, and not product specifications. The manufacturer disclaims any liability in connection with the use of the information, and does not warrant against infringement by reason of the use of any of its products in combination with other materials or in any process.



CST-78244 Lubricant

Generic Description

CST-78244 sulfurized tall oil

General Information

CST-78244 is a High-Tech lubricant concentrate specifically developed for highly deviated or horizontal drilling applications for both land and offshore use.

CST-78244 has a high affinity for metal surfaces, and will adhere tenaciously to drill pipe and drill collars. This guarantees that the lubricant will be concentrated exactly where it is needed, between the pipe and the formation. The pipe can then slide effectively without excessive loss of weight to the bit.

CST-78244 eliminates torque and drag, prevents differential sticking, and protects the drill pipe from corrosion.

Suggested Use

The extreme efficiency of this product allows for low use levels. For a typical 800-1000 bbl system, add 1-1/2 drums slowly (one drum per hour). Maintain the system as needed while drilling. Always add the product s-l-o-w-l-y into the suction pit as close to the suction line as possible. **CST-78244** is an oil soluble product and will not mix readily with the drilling fluid.

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.10 – 8.20
Flash Point, °F (TCC)	>200
Pour Point, °F	< 0
pH, (neat)	4 - 7
Solubility	
Fresh Water	Dispersible
High TDS Brine	Dispersible
Isopropanol	Soluble
Xylene	Soluble

Shipping and Handling

CST-78244 is available in 55 gallon drums and bulk tank wagons. As with any individual chemical, avoid prolonged contact with skin. In case of skin or eye contact, flush exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of **CST-78244**. Store between 40°F - 120°F.

Non-Regulated / Non-Hazardous

TDS-0697

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