



Conlen Surfactant Technology

Specialty Chemical Manufacturing, Marketing, & Distribution



Demulsifier Series

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Conlen Surfactant Technology

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CST-1000	Demulsifier Intermediate	Epoxy resin
CST-1002	Demulsifier Intermediate	Epoxy resin
CST-1032	Demulsifier Intermediate	High molecular weight phenolic resin oxyalkylate
CST-1033	Demulsifier Intermediate	High molecular weight phenolic resin oxyalkylate
CST-1047	Demulsifier Intermediate	High molecular weight phenolic resin oxyalkylate
CST-1057	Demulsifier Intermediate	Alkylaryl sulfonate
CST-1070	Demulsifier Intermediate	Polyester castor
CST-1093	Demulsifier Intermediate	Polyglycol polyimine
CST-1310	Demulsifier Intermediate	Ammonium salt of an naphthyl sulfonate
CST-1405	Demulsifier Intermediate	Mixed polyol
CST-1410	Demulsifier Intermediate	Polymerized polyol acrylic polymer
CST-1456	Demulsifier Intermediate	High molecular weight phenolic resin oxyalkylate
CST-1457	Demulsifier Intermediate	High molecular weight phenolic resin oxyalkylate
CST-1458	Demulsifier Intermediate	High molecular weight phenolic resin oxyalkylate
CST-5061	Demulsifier Intermediate	Polyglycol
CST-5062	Demulsifier Intermediate	Polyglycol
CST-5064	Demulsifier Intermediate	Polyglycol
CST-7760	Demulsifier Intermediate	Branched naphthyl sulfonic acid
CST-7763	Demulsifier Intermediate	Cyclohexylamine salt of naphthyl sulfonate
CST-7765	Demulsifier Intermediate	Ammonia salt of naphthyl sulfonate

Demulsifier Series

CST-1000 Demulsifier Intermediate

Generic Description

CST-1000 demulsifier intermediate is an epoxy resin.

General Information

CST-1000 demulsifier intermediate is designed for use in formulating water in oil emulsion breakers.

CST-1000 functions to assist in the neutralization of the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. As these water droplets merge into larger and heavier drops, the water settles and the oil rapidly rises to the top. This results in a sharp, well defined interface with bright, clean oil.

CST-1000 primarily functions as a penetrating agent in demulsifiers formulated for heavy black crudes. The product is typically added at a small rate to assist in treating emulsions created by gas cut emulsions, or fresh water emulsions, use of **CST-1000** does not contribute to the creation of invert oil in water emulsions nor increased oil carry over.

Suggested Formulation

CST-1000 should be blended into demulsifier formulations with aromatic solvent, xylene, or toluene at low concentrations to provide rapid penetration and resolution of tight emulsions.

This product is generally used in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Bottle testing is recommended to determine the specific formulation required to meet individual application needs.

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.45
Flash Point, °F (TCC)	233
Pour Point, °F	+25
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble
Water	Insoluble
RSN =	6.2

Application Information

Blended formulations containing **CST-1000** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1000 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-1000**.

Non- Regulated / Non- Hazardous

TDS-0697

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CST-1002 Demulsifier Intermediate

Generic Description

CST-1002 demulsifier intermediate is an epoxy resin.

General Information

CST-1002 demulsifier intermediate is designed for use in formulating water in oil emulsion breakers.

CST-1002 functions to assist in the neutralization of the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. As these water droplets merge into larger and heavier drops, the water settles and the oil rapidly rises to the top. This results in a sharp, well defined interface with bright, clean oil.

CST-1002 primarily functions as a penetrating agent in demulsifiers formulated for heavy black crudes. The product is typically added at a small rate to assist in treating emulsions created by gas cut emulsions, or fresh water emulsions, use of **CST-1002** does not contribute to the creation of invert oil in water emulsions nor increased oil carry over.

Suggested Formulation

CST-1002 should be blended into demulsifier formulations with aromatic solvent, xylene, or toluene at low concentrations to provide rapid penetration and resolution of tight emulsions.

This product is generally used in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Bottle testing is recommended to determine the specific formulation required to meet individual application needs.

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.6
Flash Point, °F (TCC)	135
Pour Point, °F	30
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble
Water	Insoluble
RSN Number	6

Application Information

Blended formulations containing **CST-1002** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1002 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-1002**.

Bulk: NA 1993, Combustible Liquid, N.O.S.

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CST-1032 Demulsifier Intermediate

Generic Description

CST-1032 is a high molecular weight phenolic resin oxyalkylate.

General Information

CST-1032 demulsifier intermediate is designed for use in formulating emulsion breakers for the resolution of water internal emulsions. Formulations containing **CST-1032** effectively neutralize the strength of the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. As these water droplets merge into larger and heavier drops, the water settles and the oil rapidly rises to the top. This results in a sharp, well defined interface with bright, clean oil.

Formulations containing **CST-1032** have proven effective throughout the United States in the treatment of a wide variety of crude oil types. The excellent performance of this product often results in the development of formulations that provide lower treating costs than those obtained with other demulsifier types. **CST-1032** is not prone to over treating and will not contribute to inverting the existing emulsion into a water external type. The product has proven highly effective in treating gas cut emulsions by not only breaking the emulsion, but also by exhibiting anti-foaming characteristics.

Suggested Formulation

CST-1032 should be blended with aromatic solvent, xylene, or toluene to provide a finished product. The product is generally used in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Bottle testing is recommended to determine this specific formulation.

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.6
Flash Point, °F (TCC)	> 200
pH,	6 - 8
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble
RSN Number	14.3

For additional starting point formulations for a specific geographical area contact your local Conlen Surfactant Technology representative.

Application Information

Blended formulations containing **CST-1032** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1032 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-1032**.

Non-Regulated / Non-Hazardous

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CST-1033 Demulsifier Intermediate

Generic Description

CST-1033 is a high molecular weight phenolic resin oxyalkylate.

General Information

CST-1033 demulsifier intermediate is designed for use in formulating emulsion breakers for the resolution of water internal emulsions. Formulations containing **CST-1033** effectively neutralize the strength of the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. As these water droplets merge into larger and heavier drops, the water settles and the oil rapidly rises to the top. This results in a sharp, well defined interface with bright, clean oil.

Formulations containing **CST-1033** have proven effective throughout the United States in the treatment of a wide variety of crude oil types. The excellent performance of this product often results in the development of formulations that provide lower treating costs than those obtained with other demulsifier types. **CST-1033** is not prone to over treating and will not contribute to inverting the existing emulsion into a water external type. The product has proven highly effective in treating gas cut emulsions by not only breaking the emulsion, but also by exhibiting anti-foaming characteristics.

Suggested Formulation

CST-1033 should be blended with aromatic solvent, xylene, or toluene to provide a finished product. The product is generally used in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Bottle testing is recommended to determine this specific formulation.

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	7.9
Flash Point, °F (TCC)	85
Pour Point, °F	+5
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble
RSN Number	9.6

For additional starting point formulations for a specific geographical area contact your local Conlen Surfactant Technology representative.

Application Information

Blended formulations containing **CST-1033** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1033 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-1033**.

UN1993, Flammable Liquid, N.O.S.

TDS-0697

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CST-1047 Demulsifier Intermediate

Generic Description

CST-1047 is a high molecular weight phenolic resin oxyalkylate.

General Information

CST-1047 demulsifier intermediate is designed for use in formulating emulsion breakers for the resolution of water internal emulsions. Formulations containing **CST-1047** effectively neutralize the strength of the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. As these water droplets merge into larger and heavier drops, the water settles and the oil rapidly rises to the top. This results in a sharp, well defined interface with bright, clean oil.

Formulations containing **CST-1047** have proven effective throughout the United States in the treatment of a wide variety of crude oil types. The excellent performance of this product often results in the development of formulations that provide lower treating costs than those obtained with other demulsifier types. **CST-1047** is not prone to over treating and will not contribute to inverting the existing emulsion into a water external type. The product has proven highly effective in treating gas cut emulsions by not only breaking the emulsion, but also by exhibiting anti-foaming characteristics.

Suggested Formulation

CST-1047 should be blended with aromatic solvent, xylene, or toluene to provide a finished product. The product is generally used in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Bottle testing is recommended to determine this specific formulation.

Typical Physical Properties

Form, @ 70°F	Viscous Liquid
Density, (lbs/Gal)	8.5
Flash Point, °F (TCC)	>150
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble
RSN Number	9.6

For additional starting point formulations for a specific geographical area contact your local Conlen Surfactant Technology representative.

Application Information

Blended formulations containing **CST-1047** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1047 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-1047**.

NA1993, Combustible Liquid, N.O.S.

TDS-0697

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CST-1057 Demulsifier Intermediate

Generic Description

CST-1057 demulsifier intermediate is an alkylaryl sulfonate.

General Information

CST-1057 demulsifier intermediate is designed for use in formulating emulsion breakers for the resolution of water internal emulsions. **CST-1057** breaks the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. **CST-1057** is often added to emulsifier as a polishing compound to remove residual water in the emulsion and to provide a clean oil/water interface. The product also may be used to water wet solids in solids induced emulsions. **CST-1057** is extremely effective in resolving these loose water emulsions stabilized by solids.

Demulsifier formulations using sulfonates, such as **CST-1057**, have been long recognized for their low cost and ability to treat emulsions without over treating or “burning the oil”. These characteristics make **CST-1057** an excellent choice for formulating demulsifiers for slugging compounds or slop oil treatment.

Suggested Formulation

CST-1057 should be blended with aromatic solvent, xylene or toluene to provide a finished product. The product may be formulated alone, or in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Blends of **CST-1057** and oxyalkylated phenolic resins or polyglycols have proven to be extremely effective in treating a wide variety of emulsion types. Bottle testing is recommended to determine this specific formulation.

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.8
Flash Point, °F (TCC)	> 200
pH,	2.0 – 4.0
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble
RSN Number	N/A

Application Information

Blended formulations containing **CST-1057** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1057 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-1057**.

NA2584, Corrosive Liquid, N.O.S.

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CST-1064 Demulsifier Intermediate

Generic Description

CST-1064 demulsifier intermediate is an oxyalkylated phenolic resin.

General Information

CST-1064 demulsifier intermediate is designed for use in formulating emulsion breakers for the resolution of water internal emulsions. **CST-1064** breaks the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. **CST-1064** is often added to emulsifier as a polishing compound to remove residual water in the emulsion and to provide a clean oil/water interface. The product also may be used to water wet solids in solids induced emulsions. **CST-1064** is extremely effective in resolving these loose water emulsions stabilized by solids.

Demulsifier formulations using sulfonates, such as **CST-1064**, have been long recognized for their low cost and ability to treat emulsions without over treating or "burning the oil". These characteristics make **CST-1064** an excellent choice for formulating demulsifiers for slugging compounds or slop oil treatment.

Suggested Formulation

CST-1064 should be blended with aromatic solvent, xylene or toluene to provide a finished product. The product may be formulated alone, or in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Blends of **CST-1064** and oxyalkylated phenolic resins or polyglycols have proven to be extremely effective in treating a wide variety of emulsion types. Bottle testing is recommended to determine this specific formulation.

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.42
Flash Point, °F (TCC)	>200
Pour Point, °F	+25
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble
RSN Number	12.5

Application Information

Blended formulations containing **CST-1064** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1064 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-1064**.

Non- Regulated / Non- Hazardous

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CST-1070 Demulsifier Intermediate

Generic Description

CST-1070 demulsifier intermediate is a polyester castor.

General Information

CST-1070 is a broad spectrum, oil soluble nonionic demulsifier designed for application in acidizing, fracturing and well clean out operations. The product effectively breaks water blocks and prevents or removes hydrocarbon in water/brine or acid emulsions. **CST-1070** functions by reducing the interfacial tension between aqueous and hydrocarbon phases of the treating system. The product has proven to have broad spectrum performance in a wide variety of crudes throughout North America. **CST-1070** may also be used in the spearhead of acidizing and fracturing treatments to lower the break down pressures and minimize the possibility of forming water or acid/oil emulsions.

Application Information

CST-1070 is typically applied at load rates of 2 to 5 gallons per thousand gallons of acid. When applied in matrix squeeze treatments **CST-1070** is mixed in water, brine or alcohol at a load rate of 1 to 2 gallons per barrel of fluid.

Specific load rates vary according to the type of treatment being performed, emulsifying characteristics of the oil encountered in the formation, the treating fluid and the quantity of solids generated during acidizing. Pilot testing is recommended with the test fluids to determine the optimum usage rates for specific treatments.

Typical Physical Properties

Form, 70°F	Viscous Liquid
Density, (lbs/Gal)	8.6
Flash Point, °F	>200
pH,	N/A
Solubility	
Fresh Water	Dispersible
15% HCl	Dispersible
Hydrocarbon	Soluble
Ionic Charge	Nonionic

Shipping and Handling

CST-1070 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-1070**.

Non-Regulated / Non-Hazardous

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CST-1093 Demulsifier Intermediate

Generic Description

CST-1093 demulsifier intermediate is a polyglycol polyimine

General Information

CST-1093 is a multifunctional demulsifier used to break traditional water-in-oil emulsions. Since these emulsions are complex mixtures it requires more than one product to break the emulsion., give clean interface, and clean water. Surfactants from corrosion inhibitors , scale inhibitors, paraffin inhibitors/dispersants, and water clarifiers complicate the treating issue by creating emulsions within emulsions.

Recommended Application

Polyols Treat loose emulsions providing clean interface and clean water. Higher RSN value products can water-wet solids dropping them to the water phase. Polyols are considered “greener” than resin based products and are widely used in the Gulf of Mexico on higher API gravity crudes.

Amines Provide the same characteristics of polyols, but are more effective on midrange API gravity crudes. Good candidates to improve interface and water quality.

Resins Back bone of most formulations. Primary water drop on drop entrained water. Effective performance from low to high API gravity crudes with the broadest treating spectrum. Butyl Resins have long been used in paraffinic and mixed crudes. Amyl resins show performance in mixed and asphaltenic based crudes. Nonyl resins are the most widely used on a global basis and are very effective in naphthenic crudes.

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Typical Physical Properties

Form , @ 70°F	Viscous Liquid
Density , (lbs/Gal)	8.3
Flash Point , °F (TCC)	136

Shipping and Handling

CST-1093 is a high molecular weight product that speeds water drop and allow treatment at lower temperature and lower treating rates when used in combination with other demulsifiers.

Shipping and Handling

CST-1093 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-1093**.

NA1993, Combustible Liquid, N.O.S.



CST-1310 Demulsifier Intermediate

Generic Description

CST-1310 demulsifier intermediate is the ammonium salt of a naphthalene sulfonate.

General Information

CST-1310 demulsifier intermediate is designed for use in formulating emulsion breakers for the resolution of water internal emulsions. **CST-1310** breaks the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. **CST-1310** is often added to demulsifiers as a polishing compound to remove residual water in the emulsion and to provide a clean oil/water interface. The product also may be used to water wet solids in solids induced emulsions. **CST-1310** is extremely effective in resolving these loose water emulsions stabilized by solids.

Demulsifier formulations using sulfonate salts, such as **CST-1310**, have been long recognized for their low cost and ability to treat emulsions without over treating or "burning the oil". These characteristics make **CST-1310** an excellent choice for formulating demulsifiers for slugging compounds or stop oil treatment.

Suggested Formulation

CST-1310 should be blended with aromatic solvent, xylene or toluene to provide a finished product. The product may be formulated alone, or in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Blends of **CST-1310** and oxyalkylated phenolic resins or polyglycols have proven to be extremely effective in treating a wide variety of emulsion types. Bottle testing is recommended to determine this specific formulation.

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Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.8
Flash Point, °F (TCC)	>200
pH (10% solution)	2.5-3.5
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Water	Dispersible
RSN Number	N/A

For additional starting point formulations for a specific geographical area contact your local Conlen Surfactant Technology representative.

Application Information

Blended formulations containing **CST-1310** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1310 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-1310**.

UN2586, Aryl Sulfonic Acids, liquid, with <5% free sulfuric acid



CST-1405 Demulsifier Intermediate

Generic Description

CST-1405 demulsifier intermediate is a mixed polyol.

General Information

CST-1405 demulsifier intermediate is designed for use in formulating water in oil emulsion breakers. CST-1405 functions to assist in the neutralization of the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. As these water droplets merge into larger and heavier drops, the water settles and the oil rapidly rises to the top. This results in a sharp, well defined interface with bright, clean oil.

CST-1405 primarily functions as a water wetting agent in demulsifier formulations. The product is typically added at a small rate to assist in treating emulsions with appreciable quantities of solids present. While the product has a high degree of detergency, use of CST-1405 does not contribute to the creation of invert oil in water emulsions nor increased oil carry over.

Suggested Formulation

CST-1405 should be blended into demulsifier formulations with aromatic solvent, xylene or toluene at low concentrations to provide water wetting of emulsified solids.

The provide is generally used in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Bottle testing is recommended to determine the specific formulation required to meet individual application needs.

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.2
Flash Point, °F (TCC)	120
pH, °F	3.5 – 5.5
Solubility	
Aromatic Solvent	Dispersible
Isopropanol	Soluble
Xylene	Dispersible
Water	Soluble
RSN Number	ND

For additional starting point formulations for a specific geographical area contact your local Conlen Surfactant Technology representative.

Application Information

Blended formulations containing CST-1405 are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1405 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-1405.

NA1993, Combustible Liquid, N.O.S.

TDS-0697

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CST-1410 Demulsifier Intermediate

Generic Description

CST-1410 demulsifier intermediate is a polymerized polyol acrylic polymer.

General Information

CST-1410 demulsifier intermediate is designed for use in formulating emulsion breakers for the resolution of water internal emulsions. Formulations containing **CST-1410** effectively neutralize the strength of the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. As these water droplets merge into larger and heavier drops, the water settles and the oil rapidly rises to the top. This results in a sharp, well defined interface with bright, clean oil.

Formulations containing **CST-1410** have proven effective throughout the United States in the treatment of a wide variety of crude oil types. The excellent performance of this product often results in the development of formulations that provide lower treating costs than those obtained with other demulsifier types. **CST-1410** is not prone to over treating and will not contribute to inverting the existing emulsion into a water external type. The product has proven highly effective in treating gas cut emulsions by not only breaking the emulsion, but also by exhibiting anti-foaming characteristics.

Suggested Formulation

CST-1410 should be blended with aromatic solvent, xylene or toluene to provide a finished product. The product is generally used in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Bottle testing is recommended to determine this specific formulation.

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.3
Flash Point, °F (PMCC)	106
pH,	3.7 – 4.7
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble
RSN Number	9.6

For additional starting point formulations for a specific geographical area contact your local Conlen Surfactant Technology representative.

Application Information

Blended formulations containing **CST-1410** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1410 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-1410**.

TDS-0697

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CST-1456 Demulsifier Intermediate

Generic Description

CST-1456 is a high molecular weight phenolic resin oxyalkylate.

General Information

CST-1456 demulsifier intermediate is designed for use in formulating emulsion breakers for the resolution of water internal emulsions. Formulations containing **CST-1456** effectively neutralize the strength of the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. As these water droplets merge into larger and heavier drops, the water settles and the oil rapidly rises to the top. This results in a sharp, well defined interface with bright, clean oil.

Formulations containing **CST-1456** have proven effective throughout the United States in the treatment of a wide variety of crude oil types. The excellent performance of this product often results in the development of formulations that provide lower treating costs than those obtained with other demulsifier types. **CST-1456** is not prone to over treating and will not contribute to inverting the existing emulsion into a water external type. The product has proven highly effective in treating gas cut emulsions by not only breaking the emulsion, but also by exhibiting anti-foaming characteristics.

Suggested Formulation

CST-1456 should be blended with aromatic solvent, xylene, or toluene to provide a finished product. The product is generally used in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Bottle testing is recommended to determine this specific formulation.

Typical Physical Properties

Form, @ 70°F	Viscous Liquid
Density, (lbs/Gal)	8.6
Flash Point, °F (TCC)	> 200
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble
RSN Number	19

For additional starting point formulations for a specific geographical area contact your local Conlen Surfactant Technology representative.

Application Information

Blended formulations containing **CST-1456** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1456 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-1456**.

Non-Regulated / Non-Hazardous

TDS-0697

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CST-1457 Demulsifier Intermediate

Generic Description

CST-1457 is a high molecular weight phenolic resin oxyalkylate.

General Information

CST-1457 demulsifier intermediate is designed for use in formulating emulsion breakers for the resolution of water internal emulsions. Formulations containing CST-1457 effectively neutralize the strength of the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. As these water droplets merge into larger and heavier drops, the water settles and the oil rapidly rises to the top. This results in a sharp, well defined interface with bright, clean oil.

Formulations containing CST-1457 have proven effective throughout the United States in the treatment of a wide variety of crude oil types. The excellent performance of this product often results in the development of formulations that provide lower treating costs than those obtained with other demulsifier types. CST-1457 is not prone to over treating and will not contribute to inverting the existing emulsion into a water external type. The product has proven highly effective in treating gas cut emulsions by not only breaking the emulsion, but also by exhibiting anti-foaming characteristics.

Suggested Formulation

CST-1457 should be blended with aromatic solvent, xylene, or toluene to provide a finished product. The product is generally used in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Bottle testing is recommended to determine this specific formulation.

TDS-0697

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Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.0
Flash Point, °F (TCC)	95
Solubility,	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble
RSN Number	8.9

For additional starting point formulations for a specific geographical area contact your local Conlen Surfactant Technology representative.

Application Information

Blended formulations containing CST-1457 are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1457 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-1457.

UN1993, Flammable Liquid, N.O.S.



CST-1458 Demulsifier Intermediate

Generic Description

CST-1458 is a high molecular weight phenolic resin oxyalkylate.

General Information

CST-1458 demulsifier intermediate is designed for use in formulating emulsion breakers for the resolution of water internal emulsions. Formulations containing **CST-1458** effectively neutralize the strength of the natural emulsifying agents in the oil, allowing the finely dispersed water droplets to coalesce. As these water droplets merge into larger and heavier drops, the water settles and the oil rapidly rises to the top. This results in a sharp, well defined interface with bright, clean oil.

Formulations containing **CST-1458** have proven effective throughout the United States in the treatment of a wide variety of crude oil types. The excellent performance of this product often results in the development of formulations that provide lower treating costs than those obtained with other demulsifier types. **CST-1458** is not prone to over treating and will not contribute to inverting the existing emulsion into a water external type. The product has proven highly effective in treating gas cut emulsions by not only breaking the emulsion, but also by exhibiting anti-foaming characteristics.

Suggested Formulation

CST-1458 should be blended with aromatic solvent, xylene, or toluene to provide a finished product. The product is generally used in conjunction with demulsifier bases of other generic structures to impart a synergistic formula to provide a more cost effective product to treat a specific water in oil emulsion. Bottle testing is recommended to determine this specific formulation.

Typical Physical Properties

Form, @ 70°F	Liquid
Density, (lbs/Gal)	8.6
Flash Point, °F (TCC)	> 200
Solubility	
Aromatic Solvent	Soluble
Isopropanol	Soluble
Xylene	Soluble

For additional starting point formulations for a specific geographical area contact your local Conlen Surfactant Technology representative.

Application Information

Blended formulations containing **CST-1458** are typically applied on a continuous basis via a chemical injection pump. Treating rates will vary depending upon the severity of the emulsion, oil, gravity, water chloride content, treating temperatures, retention times, and treating system mechanics. However, typical treating rates vary from 60 to 250 ppm. The product is typically injected with a chemical pump at the well head or other point upstream of the treating system. Product injection points should be selected to provide maximum mixing of the demulsifier with the emulsion.

In slug treatments of emulsified oil tanks, the formulated product should be added at a rate of 2 to 5 gallons per 100 barrels prior to pulling the bottoms. The tank should be allowed to set for 24 to 48 hours prior to pulling the bottoms.

Shipping and Handling

CST-1458 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-1458**.

Non-Regulated / Non-Hazardous

TDS-0697

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CST-5061 Demulsifier Intermediate

Generic Description

CST-5061 demulsifier intermediate is polyglycol.

General Information

CST-5061 demulsifier intermediate is a multi-functional non-ionic surfactant, emulsifying, detergent. This product is sparingly soluble in water, low foaming, and is stable in alkaline and acidic. CST-5061 exhibits non-hygroscopic, non-corrosive, and low toxicity properties.

Application Information

CST-5061 finds use in the following applications:

Anti-Foam

Water Treatment	Paper Process
Fermentations	In adhesive formulations
Process of Formaldehyde	

Petro Chemicals

Raw material for the manufacture of demulsifier

Emulsifying formulations

Cardboard and Paper

Used as an additive and stabilizer of sulphites in the bleaching of pulp.

Formulation of Detergents and Soaps

Liquid detergents by low foaming, detergency, easy rinse, for application in the domestic and industrial area.

Bar soap

Polymerization

In emulsion polymerization, as stabilizer coating lattice

In the manufacture of polyurethanes

TDS-0697

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Typical Physical Properties

Form, @ 70°F	Opalescent Liquid
Density, (lbs/Gal)	8.5 – 8.7
Flash Point, °F (TCC)	> 200
pH, (At 1% in solution 50:50 Isopropane/Water)	6.0 – 8.0
Moisture, (Karl Fisher)	1.0 Max
Solubility	
Water	Dispersible

Additional Information

This products at temperatures below 25 C / 77 F or storage, can present sedimentation, which is characteristic of this material. It is recommended to shake to mix before use. Heat gently until the opalescence disappears.

Shipping and Handling

CST-5061 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-5061.

Non-Regulated / Non-Hazardous



CST-5062 Demulsifier Intermediate

Generic Description

CST-5062 demulsifier intermediate is polyglycol.

General Information

CST-5062 demulsifier intermediate is a multi-functional non-ionic surfactant, emulsifying, dispersant, wetting agent, and detergent. This product is sparingly soluble in water, low foaming, and is stable in alkaline and acidic. CST-5062 exhibits non-hygroscopic, non-corrosive, and low toxicity properties.

Application Information

CST-5062 is used in the development of heavy degreasing and as an aid in the formulation of scale removing preparations for pipes, tanks, reactors, etc.

Detergent in General

Domestic Area:

Aerosols for ovens and stoves Floors
Washer Dish Washer

Industrial Area:

Clean Metal Machinery in general
Laundries Typographic Machines

Pulp and Paper

Antifoam – paper making process
Wash pulp, waste cloths, and felts

Cardboard and Paper

Emulsifier of resins for coating paper
Emulsifier and wetting of fine particles of pigments used in coatings for paper

Textiles

Wetting agent in synthetic fibers and as a temporary anti-static fabric polyacrylic finish.

TDS-0697

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Typical Physical Properties

Form, @ 70°F	Opalescent Liquid
Density, (lbs/Gal)	8.5 – 8.7
Flash Point, °F (TCC)	> 200
pH, (At 1% in solution 50:50 Isopropane/Water)	6.0 – 8.0
Moisture, (Karl Fisher)	1.0 Max
Solubility	
Water	Miscible

Suggested Formulation

Water Treatment

For internal treatment formulations of antifoam boiler blend 45% of CST-5062 with 5% ethyl alcohol and 50% water.

Additional Information

This products at temperatures below 25 C / 77 F or storage, can present sedimentation, which is characteristic of this material. It is recommended to shake to mix before use. Heat gently until the opalescence disappears.

Shipping and Handling

CST-5062 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-5062.

Non-Regulated / Non-Hazardous



CST-5064 Demulsifier Intermediate

Generic Description

CST-5064 demulsifier intermediate is polyglycol.

General Information

CST-5064 demulsifier intermediate is a high molecular weight non-ionic surfactant which displays specific characteristics such as detergency, easy rinsing, low foaming, dispersing, and emulsifying. **CST-5064** is not hygroscopic or corrosive and is less toxic. This product is stable in acidic solutions, basic, and metal ions. Like all non-ionic surfactants, **CST-5064** degrades slowly in the presence of oxidizing agents. This product is compatible with other corrosion inhibitors.

Application Information

For water treatment application, **CST-5064** demonstrates large scattering power for calcium and magnesium ions, for what is considered an important adjunct in formulations for descaling of pipes and boilers. **CST-5064** is also used as an antifoam in water treatments as well as steam generator systems because of low foaming properties.

CST-5064 is used in the formulation of household/industrial detergents and detergent sprays due to its low foam, easy rinse, and effectiveness in the presence of water.

CST-5064 is used in making non-medicated and medicated soaps based on iodine, because it forms a nontoxic, stable complex with iodine.

For cardboard and paper applications **CST-5064**, is used as an additive to the pulp and as an antifoam in the paper processes. **CST-5064** is also used as a viscosity controller in the paper coating colours.

For painting applications, **CST-5064** acts as a viscosity controller and pigment dispersant. **CST-5064** is used as coating lattices such as polyvinyl acetate because of the emulsifying and stabilizing properties.

Typical Physical Properties

Form , @ 70°F	Viscous Cloudy Liquid
Density , (lbs/Gal)	8.5 – 8.7
Flash Point , °F (TCC)	> 200
pH , (at 1% in water)	6.0 – 8.0
Moisture , (Karl Fisher)	1.0 Max
Solubility , Water	Soluble

Application Information (continued)

For textile applications, **CST-5064** at concentrations of 1.0%, has a good wetting property, in addition to the detergency, dispersibility of salts, easy to rinse, and stability in alkaline.

CST-5064 is used as an aid in treatment of penetrating wood. **CST-5064** in processes whose raw material is cellulose provides good dispersion, reduction of foam, lubrication and strength to the fibers.

Shipping and Handling

CST-5064 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-5064**.

Non-Regulated / Non-Hazardous

TDS-0697

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