



The purpose of an antioxidant additive is to extend the induction period and control gum formation by terminating the free radical chain reactions involved in hydrocarbon oxidation. The antioxidant selection and concentration levels depend on various factors, including storage conditions and petroleum fuel composition.

Lubricity improvers are non-metallic, phosphorous-free additives which provide boundary lubrication between moving fuel system components. Middle distillates typically contain trace materials, which have the ability to provide boundary lubrication between moving metallic parts in vehicle fuel systems. If, however, the fuels are processed to remove

Fuel Antioxidants

AO-22: N,N'-di-sec-butyl-p-phenylenediamine. Reddish liquid. Sp. Gr. 0.94. USE: Sweetens gasoline and retards formation of gums and greases to retard oxidation. CONC.: 2-15 ptb (6-43 mg/L). CONTAINERS: 55-gal. (425 lb) steel drums, T/T, Totes.

AO-24: A 50% A.I., principally N,N'-di-sec-butyl-p-phenylenediamine. Sp. Gr. 0.94. USE: Sweetens gasoline and retards formation of gums and greases to retard oxidation. Specially blended for use in diesel fuels. CONC.: 2-15 ptb (6-43 mg/L). CONTAINERS: 55-gal. (408 lb) steel drums, T/T, Totes.

AO-29: 2,6-di-tert-butyl-4-methylphenol. A light colorless liquid. Sp. Gr. 1.05. USE: In turbine, transformer and hydraulic fluids and in gasoline to reduce the formation of gum. CONC.: 1-10 ptb (3-29 mg/L). CONTAINERS: 55-gal. (408 lb) steel drums, (100 lb) fiber drums.

AO-30: 100% alkylated phenols, principally 2,4-dimethyl-6-tert-butyl-phenol. A colorless liquid, readily soluble in gasolines and oils. Sp. Gr. 0.94. USE: In gasolines to reduce gum formation. CONC.: 1-10 ptb (3-29 mg/L). CONTAINERS: 55-gal. (408 lb) steel drums.

AO-31: 100% alkylated phenols, principally 2,4-dimethyl-6-tert-butyl-phenol. A colorless liquid, readily soluble in gasolines and oils. Sp. Gr. 0.94. USE: In gasolines to reduce gum formation. CONC.: 1-10 ptb (3-29 mg/L). CONTAINERS: 55-gal. (408 lb) steel drums.

AO-32: 100% alkylated phenols, principally 2,4-dimethyl-6-tert-butyl-phenol (15% min.). Sp. Gr. 0.96. USE: In gasolines to reduce gum formation. CONC.: 1-10 ptb (3-29 mg/L). CONTAINERS: 55-gal. (408 lb) steel drums.

AO-36: 100% alkylated phenols, principally propylated phenols. Excellent low temperature properties. Sp. Gr. 0.94. USE: In gasolines to reduce gum formation. CONC.: 1-10 ptb (3-29 mg/L). CONTAINERS: 55-gal. (408 lb) steel drums, as AO-36D (80% A.I.), in solvent.

AO-37: 100% alkylated phenols, principally 2,6-di-tert-butyl-4-methylphenol. A colorless liquid. Sp. Gr. 0.94. USE: In jet fuels and gasolines. Widely approved for aviation fuels. CONC.: 1-10 ptb (3-29 mg/L). CONTAINERS: 55-gal. (408 lb) steel drums, T/T. Also available as AO-37D (80% active).

AO-29, AO-31 and AO-37 are acceptable for use in aviation fuels. For more information, see product information bulletins for additional details of use. Memo 10,001 describes the use and approval status of these additives.

Fuel Lubricity Improvers

DCI-4A: A corrosion inhibitor lubricity additive for aviation fuels. Amber liquid. Sp. Gr. 0.94. USE: Widely approved for use in aviation fuels. CONC.: 2-4 ptb (6-11 mg/L). CONTAINERS: 55-gal. (425 lb) steel drums, T/T, Totes.

OLI-9070.x: The only fully synthetic, ester based, non-metallic lubricity additive for use in low sulfur and ultra low sulfur diesel fuels. Sp. Gr. 0.94. USE: Excellent for low temperature handling. CONTAINERS: 55-gal. (425 lb) steel drums, T/T, Totes.

OLI-9101.x: Combination package of OLI-9070.x lubricity improver and DCI-4A corrosion inhibitor. Sp. Gr. 0.94. USE: Excellent for low temperature handling. CONTAINERS: 55-gal. (425 lb) steel drums, T/T, Totes.

Multifunctional Gasoline Packages

DGS 105, 108, 109, 118, 119Y, 126, 132, 135, 136, 138, 139: Various combinations of antioxidants, metal deactivator and corrosion inhibitors. USE: Provide gasoline stability for severe service. CONC.: Varies by product/application. CONTAINERS: 55-gal. steel drums, T/T, Totes.

Fuel Conductivity Improvers

Stadis® 425: Non-metallic, low viscosity, straw colored liquid conductivity improver. Sp. Gr. 0.85. USE: Improves conductivity to reduce electrostatic hazards during transfer of distillate fuels and solvents without affecting fuel stability or water contact properties. CONC.: 0.1-1.0 ptb (0.3-3.0 mg/L). CONTAINERS: 35 lb pails, 55-gal. (386 lb) steel drums, T/T, Totes.

Stadis® 450: Non-metallic, low viscosity, amber liquid conductivity improver. Sp. Gr. 0.92. USE: Improves conductivity to reduce electrostatic hazards during transfer of distillate and jet fuels and solvents, without affecting fuel stability or water contact properties. Complete worldwide approval for jet fuels. CONC.: 0.1-1.0 ptb (0.3-3.0 mg/L). CONTAINERS: 35 lb pails, 55-gal. (410 lb) steel drums, T/T, Totes.

Corrosion Inhibitors

DCI-4A: A corrosion inhibitor lubricity additive for aviation and motor gasolines, jet fuels and other distillate fuels. Widely approved and preferred for use in jet fuels. Amber liquid. Sp. Gr. 0.939. CONC.: 2-4 ptb (6-11 mg/L). CONTAINERS: 55-gal. (419 lb) steel drums, T/T, Totes.

DCI-6A: A corrosion inhibitor for motor gasoline and distillate fuels. Amber liquid. Sp. Gr. 0.944. CONC.: 1-3 ptb (3-9 mg/L). CONTAINERS: 55-gal. (419 lb) steel drums, T/T, Totes. Also available as DCI-6A 80/20 (80% A.I.) in solvent.

DCI-11: Corrosion inhibitor for gasolines containing oxygenates and for use in alcohols. Amber liquid. Sp. Gr. 0.942. CONC.: Preferably added to the alcohol to provide 2-3 ptb (6-9 mg/L) in the finished gasoline/oxygenate blend. CONTAINERS: 55-gal. (419 lb) steel drums, T/T, Totes.

DCI-30: Synthetic, caustic insensitive, sulfur compliant corrosion inhibitor which provides excellent corrosion protection in gasoline and distillate fuels during pipeline transfers and storage. Sp. Gr. 0.930. CONC.: 1-3 ptb (3-9 mg/L). CONTAINERS: 55-gal. (400 lb) steel drums, T/T, Totes. Also available as DCI-30.n/50 (50% A.I.) in solvent.

Fuel Oil Additives

FOA-3: A complex amine, clear, straw colored liquid. Sp. Gr. 0.86. USE: Ashless antioxidant and color stabilizer. Broader properties obtained by blending with metal deactivator. CONC.: 1-20 ptb (3-57 mg/L). CONTAINERS: 55-gal. (386 lb) steel drums, T/T, Totes.

FOA-5: A new advanced dispersant. A viscous, amber, ashless liquid in xylene. Sp. Gr. 0.90. USE: Retards formation of insolubles and disperses sludge in diesel fuels and heating oils. CONC.: 2-10 ptb (6-29 mg/L). CONTAINERS: 55-gal. (386 lb) steel drums, T/T.

FOA-6: A new advanced liquid antioxidant and color stabilizer for burner and diesel fuels. Sp. Gr. 0.83. CONC.: 1-12 ptb (3-34 mg/L). CONTAINERS: 55-gal. (380 lb) steel drums, T/T.

FOA-31A: An advanced multifunctional additive providing dispersancy, antioxidant properties, color



FOA-35A: An advanced multifunctional additive providing dispersancy, antioxidant properties, color stability and copper deactivation. Sp. Gr. 0.86. USE: Provides metal deactivation, rust inhibition and reduction of oxidation. CONC.: 5-30 ptb (14-85 mg/L). CONTAINERS: 55-gal. (386 lb) steel drums, T/T, Totes.

FOA-405: Amber, ashless liquid. Sp. Gr. 0.91. USE: Provides corrosion inhibition and metal deactivation. CONC.: 3-10 ptb (9-30 mg/L). CONTAINERS: 35 lb pails, 55-gal. (386 lb) steel drums, T/T.

FOA-414: Amber, ashless liquid. Sp. Gr. 0.91. USE: Provides corrosion inhibition and metal deactivation. Stadis® 425 to impart conductivity and corrosion inhibition. CONC.: 3-10 ptb (9-30 mg/L). CONTAINERS: 35 lb pails, 55-gal. (386 lb) steel drums, T/T.

FOA-415: Amber, ashless liquid. Sp. Gr. 0.95. USE: Provides corrosion inhibition and metal deactivation. Stadis® 425 to impart conductivity and corrosion inhibition. CONC.: 3-10 ptb (9-30 mg/L). CONTAINERS: 35 lb pails, 55-gal. (386 lb) steel drums, T/T.

De-icer

DIEGME: Sp. Gr. 1.023. USE: To inhibit icing in aviation and 83133) and commercial (ASTM D1655) jet fuels. CONC.: 1-3 ptb (3-9 mg/L). CONTAINERS: 460 lb steel drums, T/T.

Metal Deactivators

DMD: A 75% solution of N, N'-Disalicylidene-1, 2-propanediol. USE: Provides storage and color stability of petroleum distillates and jet fuels. CONC.: Varies with fuel to improve JFTOT performance. CONC.: Varies with fuel (50% A.I.) in solvent. CONTAINERS: 30-gal. (258 lb) steel drums, T/T, Totes.

Dyes and Markers

Hydrocarbon Soluble Dyes: USE: Impart distinctive colors to fuels for identification purposes.

Oil Blue A Powder	Oil Color IAR L
Oil Blue B Liquid	Oil Orange M2
Oil Bronze Liquid	Oil Purple M2
Oil Brown M2 Liquid	Oil Red B4 Liq
Oil Green M2 Liquid	Oil Red B4 (D)

Cetane Number Improvers

CI-0801: Alkyl nitrate. Sp. Gr. 0.967. USE: In diesel fuels to improve cetane number. CONC.: 1-5 vol. %. CONTAINERS: R/C, T/T, 55-gal. (419 lb) steel drums, T/T, Totes.

CI-0802: An advanced cetane number improver. USE: Improves cetane quality of distillate stocks and improves thermal stability degradation when exposed to high temperatures. Contains a proprietary fuel stabilizer which restores the original cetane number. CONC.: 1-5 vol. %. CONTAINERS: 55-gal. (419 lb) steel drums, T/T, Totes.

CI-0808: Di-tert-butyl peroxide (50 wt %) in diesel fuels to improve cetane number without increasing nitrogen content. CONC.: 1-5 vol. %. CONTAINERS: 55-gal. (419 lb) steel drums, T/T, Totes.

Metal deactivators help stabilize fuels when naturally-occurring acidic compounds catalyze undesirable reactions with certain metals during distribution, storage and usage.

Hydrocarbon soluble dyes and markers facilitate fuel identification for both fiscal and security purposes.

Cetane Improvers increase the ignition quality of distillate stocks and are considered a direct means of upgrading diesel fuels. These compounds readily decompose to generate free radicals which enhance the initiation of combustion.

Cold Flow Improvers

PPD-2000, 5000, 7000 Series: A wide variety of EV and copolymers in various types of solvents. USE: Depress the pour point and low temperature handling properties of middle distillate fuels. CONC.: Fuel dependent, varies from 8 to 150 ptb. CONTAINERS: T/T, Totes.

Innospec Fuel Specialties Next Generation of Pour Point Depressants allow for smaller dose levels, excellent thermal memory characteristics and dependable performance in ultra low sulfur diesel (ULSD). These benefits, combined with improved economic performance, allow the refiner to meet the required specifications while exceeding bottom line expectations. Our PPDs are based on the latest growth arrestor/nucleation polymers and are designed to be synergistic with downstream low temperature operability additives.

CPD-1000 Series: A variety of copolymers and terpolymers in various solvents. USE: Depress the cloud point and low temperature handling properties of middle distillate fuels. CONC.: Fuel dependent, varies from 8 to 150 ptb. CONTAINERS: T/T, Totes.

Cloud Point Depressants allow refiners flexibility in managing their jet/kero streams, thus maximizing their profits. CPDs can afford refiners the ability to upgrade valuable light-middle distillate components for higher value sales, while still meeting industry cloud point specifications.

DFI-600, DFI-700: Neat cold flow improver polymers designed to control the growth characteristics of the waxes found in middle distillate fuels. Benefits include improved low temperature pumpability, filterability and metering. CONTAINERS: R/C, T/T.

Gasoline Deposit Control Additives

At the recommended treat rates the DMA-5XX series offers the following benefits:

- Intake Valve Deposits (IVD) keep clean
- Port Fuel Injector (PFI) keep clean
- Port Fuel Injector clean up
- Combustion Chamber Deposit (CCD) control
- Excellent corrosion protection
- Complete compatibility with component materials of the engine and fuel system
- Top tier performance

DMA-580: Base product of this series developed to meet all of the fuel industry's performance requirements. CONTAINERS: 55-gal. (408 lb) steel drums, T/T. Available in dilute blends for low temperature handling.

Innospec Fuel Specialties offers a wide variety of formulations to meet customer operability requirements. In addition, the DMA-5XX series meets the specified performance requirements of both the EPA and CARB.

When faced with low temperatures and varying fuel qualities, diesel engine performance can be greatly improved by using high performance fuel additives. Innospec's Winter Operability Additives not only improve cold flow and lubricity. They also utilize de-icer chemistry to prevent fuel filter and fuel line freezing.



Winter Operability Additives

1400: Multifunctional middle distillate fuel additive for use as a wax modifier to improve low temperature operability of diesel fuel. It lowers the Cold Filter Plugging Point and Pour Point. It also prevents fuel gelling in low temperature climates. Aids against fuel system icing and engine shutdowns in cold climates. Aids against fuel system icing. Also contains a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed and formulated specifically for Ultra Low Sulfur Diesel. CONTAINERS: T/T, 275 gal. totes, 55-gal. steel drums.

1400 LFH: A low flash multifunctional middle distillate fuel additive for use as a wax modifier to improve low temperature operability of diesel fuel. It functions as a wax modifier to improve low temperature operability of diesel fuel. It lowers the Cold Filter Plugging Point and Pour Point. It also prevents fuel gelling in low temperature climates. Aids against fuel system icing and engine shutdowns in cold climates. Aids against fuel system icing. Disperses wax during extended engine shutdowns in cold climates. Aids against fuel system icing. Also contains a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed and formulated specifically for Ultra Low Sulfur Diesel. CONTAINERS: T/T, 275-gal. totes, 2.5-gal. plastic containers.

1750: Multifunctional middle distillate fuel additive for use as a wax modifier to improve low temperature operability of diesel fuel. It lowers the Cold Filter Plugging Point and Pour Point. It also prevents fuel gelling in extreme low temperature climates. Aids against fuel system icing and engine shutdowns in cold climates. Aids against fuel system icing. Also contains a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed and formulated specifically for Ultra Low Sulfur Diesel. CONTAINERS: T/T, 275-gal. totes, 55-gal. steel drums.

8500 HEC 40/80: A Low Flash winterized middle distillate fuel additive for use as a wax modifier to improve low temperature operability of diesel fuel. This product is designed for regions that require an additional wax modifier under the most severe conditions. 8500 HE C40/80 lowers the Cold Filter Plugging Point and Pour Point at low temperatures. Disperses wax during extended engine shutdowns in cold climates. Aids against fuel system icing and engine shutdowns in cold climates. Aids against fuel system icing. Also contains a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed and formulated specifically for Ultra Low Sulfur Diesel. CONTAINERS: T/T, 275-gal. totes, 55-gal. steel drums.

9000HE: A multifunctional middle distillate fuel additive for use as a wax modifier to improve low temperature operability of diesel fuel. It functions as a wax modifier to improve low temperature operability of diesel fuel. It lowers the Cold Filter Plugging Point and Pour Point at low temperatures. Disperses wax during extended engine shutdowns in cold climates. Aids against fuel system icing and engine shutdowns in cold climates. Aids against fuel system icing. Also contains a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed specifically for fleet applications. Designed and formulated specifically for Ultra Low Sulfur Diesel. CONTAINERS: T/T, 275-gal. totes, 55-gal. steel drums.

CFI-1902: A multifunctional middle distillate fuel additive for use as a wax modifier to improve low temperature operability of diesel fuel. This regionally blended additive lowers the Cold Filter Plugging Point and Pour Point at low temperatures in the toughest to treat fuels. Disperses wax during extended engine shutdowns in cold climates, aids against fuel system icing, and contains a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed specifically for Ultra Low Sulfur Diesel. CONTAINERS: T/T, 275-gal. totes, 55-gal. steel drums, 2.5-gal. plastic containers.

AP-75 Type III: A concentrated multifunctional middle distillate fuel additive for use as a wax modifier to improve low temperature operability of diesel fuel. This regionally blended additive lowers the Cold Filter Plugging Point and Pour Point at extreme temperatures. This regionally blended additive lowers the Cold Filter Plugging Point and Pour Point at low temperature operability of diesel fuel. This product lowers the Cold Filter Plugging Point and Pour Point at low temperature operability of diesel fuel. It also prevents fuel gelling in extreme low temperature climates.

All Year Multifunctional Additives

2400: A multifunctional middle distillate fuel additive that improves and maintains fuel efficiency. Passes class 8 Fuel Filter Plugging test, reduces exhaust emissions, effectively removes water on a gradual basis. Increases cetane by 2-4 numbers. It also includes a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed and reformulated specifically for Ultra Low Sulfur Diesel. CONTAINERS: T/T, 275-gal. totes, 55-gal. steel drums, 5-gal. steel pails, 2.5-gal. plastic containers.

2750: A multifunctional middle distillate fuel additive that improves and maintains fuel efficiency. Passes class 8 Fuel Filter Plugging test, reduces exhaust emissions, effectively removes water on a gradual basis. Increases cetane by 4-6 numbers. It also includes a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed and reformulated specifically for Ultra Low Sulfur Diesel. CONTAINERS: T/T, 275-gal. totes, 55-gal. steel drums, 5-gal. steel pails, 2.5-gal. plastic containers.

7000: A concentrated multifunctional middle distillate fuel additive that improves and maintains fuel efficiency. Passes class 8 Fuel Filter Plugging test, reduces exhaust emissions, effectively removes water on a gradual basis. It also includes a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed specifically for fleet applications and reformulated specifically for Ultra Low Sulfur Diesel. CONTAINERS: T/T, 275-gal. totes, 55-gal. steel drums, 5-gal. steel pails, 2.5-gal. plastic containers, 1-gal. plastic containers.

7725: A multifunctional middle distillate fuel additive that improves and maintains fuel efficiency. Passes class 8 Fuel Filter Plugging test, reduces exhaust emissions, effectively removes water on a gradual basis. It also includes a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed and reformulated specifically for Ultra Low Sulfur Diesel. CONTAINERS: T/T, 275-gal. totes, 55-gal. steel drums, 5-gal. steel pails, 2.5-gal. plastic containers.

Home Heating Oil Additives

3000: A multifunctional home heating fuel oil additive designed to enhance a wide spectrum of performance properties. This product cleans the fuel system by dispersing and removing sludge allowing it to pass harmlessly through fuel screens and filters. 3000 also cleans burner nozzles, protects metallic components and prevents catalytic degradation induced by free metals including copper. It reduces opportunity for microbial growth and water related corrosion and contains antioxidants to protect thermal and oxidative stability. This product also contains defoamers for quicker fuel tank filling. CONTAINERS: T/T, 275-gal. totes, 55-gal. steel drums, 5-gal. steel pails, 2.5-gal. plastic containers.

3100: A multifunctional home heating fuel oil additive designed to enhance a wide spectrum of performance properties. More specifically this product lowers the Pour Point and Cold Filter Plugging Point of the fuel. It also disperses wax to prevent gelling in low temperatures. This product cleans the fuel system by dispersing and removing sludge allowing it to pass harmlessly through fuel screens and filters. 3100 also cleans burner nozzles, protects metallic components and prevents catalytic degradation induced by free metals including copper. It reduces opportunity for microbial growth and water related corrosion and contains antioxidants to protect thermal and oxidative stability. This product also contains defoamers for quicker fuel tank filling. CONTAINERS: T/T, 275-gal. totes, 55-gal. steel drums, 5-gal. steel pails 2.5-gal. plastic containers.

Many of our market leading fuel additive chemistries are available as Packaged Products. With application by the end-user, these products provide a quick and efficient route to improved performance. We have additives specifically designed for home heating systems, marine applications, fleet vehicles and winter motorists.

Packaged Good Products

ECOHEAT: A multifunctional home heating fuel oil additive with enhanced performance properties. More specifically this product lowers the Cold Flow Filter Plugging Point of the fuel. It also disperses wax to prevent gelling in low temperatures. This product cleans the fuel system by dispersing and removing sludge allowing it to pass harmlessly through fuel screens and filters. EcoHeat also cleans burner nozzles, protects metallic components and prevents catalytic degradation induced by free metals including copper. It reduces opportunity for microbial growth and water related corrosion and contains antioxidants to protect thermal and oxidative stability. This product also contains defoamers for quicker fuel tank filling. CONTAINER: 32 oz. bottle.

ECOCLEAN: A multifunctional middle distillate fuel additive designed to enhance a wide spectrum of performance properties. It functions as a product that improves and maintains fuel efficiency. Passes class 8 Fuel Filter Plugging test, reduces exhaust emissions, effectively removes water on a gradual basis. Increases cetane by 2-4 numbers. It also includes a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed and reformulated specifically for Ultra Low Sulfur Diesel. CONTAINER: 32 oz. bottle.

AQUACLEAN: A multifunctional middle distillate fuel additive designed to enhance a wide spectrum of performance properties. It functions as a product that improves and maintains fuel efficiency. Passes class 8 Fuel Filter Plugging test, reduces exhaust emissions, effectively removes water on a gradual basis. Increases cetane by 2-4 numbers. It also includes a fully synthetic lubricity improver, a caustic resistant corrosion inhibitor and antioxidants to protect thermal and oxidative stability. Designed and reformulated specifically for Ultra Low Sulfur Diesel. CONTAINER: 32 oz. bottle.

WINTERFLOW : A multifunctional middle distillate fuel additive designed to enhance a wide spectrum of performance properties. This product lowers Cold Flow Filter Plugging Point to prevent gelling in low temperatures. Winterflow also contains wax modifiers; aids against fuel system wax deposits and protects thermal and oxidative stability. Designed for fleet applications and reformulated specifically for Ultra Low Sulfur Diesel. CONTAINER: 32 oz. bottle.

EXTREME WINTERFLOW: A multifunctional middle distillate fuel additive designed to enhance a wide spectrum of performance properties. This product lowers Cold Flow Filter Plugging Point to prevent gelling in low temperatures. Extreme Winterflow also contains wax modifiers; aids against fuel system wax deposits and protects thermal and oxidative stability. Designed for fleet applications and reformulated specifically for Ultra Low Sulfur Diesel. CONTAINER: 16 oz. bottle.

RED ALERT: A winterized middle distillate fuel additive designed to enhance a wide spectrum of performance properties. This product lowers Cold Flow Filter Plugging Point to prevent gelled, or anticipated extreme circumstances that are associated with winter weather and de-icer combination dissolves gelled fuel that has accumulated in the fuel system. This product is intended for emergency use only and is not for use in normal operating conditions. This product has a low flash point. See MSDS for further information. CONTAINER: 32 oz. bottle.

DIESEL SHIELD: A middle distillate fuel additive designed to enhance a wide spectrum of performance properties. This patented chemistry has been developed to meet the needs of modern diesel fuels. It is a fully synthetic chemistry that will not react with any diesel adulterants (e.g. addition of used lubricants.) CONTAINER: 32 oz. bottle.

DRITEK: A middle distillate fuel additive designed to enhance a wide spectrum of performance properties. Specifically to inhibit microbial growth, as well as to act as a corrosion inhibitor. CONTAINER: 32 oz. bottle.

6000: Antibacterial and antifungal agent for preserving fuel and water phase providing protection in the fuel phase. CONTAINER: 1-gal. container.

LEGAL DIESEL™ Fuel Additives

Innospec Fuel Specialties LLC was the first company to launch an entire ULSD product line that contains <15 ppm sulfur. Our LEGAL DIESEL™ Fuel Additives are all certified using proper Product Transfer Documents (PTDs). The PTDs clearly state:

“40CFR80.591(d) (1):

- *This diesel fuel additive complies with the federal low sulfur content requirements for use in diesel motor vehicles and nonroad engines.”*
- *This is a LEGAL DIESEL™ Fuel Additive Product.”*

Product 1400	CFI-1902	Product 7725	Product 1400 LFH
AP-75 Type III	Eco Clean	Product 1750	Product 2400
Aqua Clean	8500 HEC 40/80	Product 2750	WinterFlow
9000 HE	Product 7000	Extreme WinterFlow	Red Alert
Diesel Shield	DriTek	Product 6000	OLI-9070.x
CI-0801	CI-0802	PPD Series Products	CPD Series Products
CFI Series Products	DFI Series Products	SynLub	

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Marine Specialties

Octamar™ BT-8: Octamar™ BT-8 is an asphaltene dispersant-stabilizer that keeps the fuel homogenized and the fuel system clean. The dispersant-stabilizer prevents fuel from stratification and the asphaltenes from agglomerating. This will greatly reduce sludge formation in fuel tanks and helps to keep separators, filters, fuel heaters, viscometers and injector (burner) tips clean, resulting in less maintenance and downtime. CONTAINER: 53-gal. steel drums (410 lb).

Octamar™ BT-8 PLUS: Octamar™ BT-8 PLUS is an asphaltene dispersant-stabilizer uniquely combined with a combustion catalyst that keeps the fuel system clean and improves the combustion of fuel. The dispersant-stabilizer prevents fuel from stratification and the asphaltenes from agglomerating. This will reduce sludge formation in fuel tanks and helps to keep separators, filters, fuel heaters, viscometers and injector (burner) tips clean, resulting in less maintenance and downtime. CONTAINER: 53-gal. steel drums (445 lbs).

Octamar™ F: Octamar™ F is a highly concentrated combustion improving agent, to optimize the combustion for marine fuel oils. A higher burn-out of carbon and hydrocarbon will reduce the build-up of deposits, reduces maintenance and increase the time between overhauls. The risk of T/C breakdown and boiler fires is significantly reduced. CONTAINER: 54kg pails (119 lbs).

Octamar™ MP-3 Plus: Octamar™ MP-3 PLUS is a concentrated combustion catalyst specially formulated to improve combustion of fuels with high C/H ration which are slow burning fuels. Faster and more complete combustion will reduce unburned carbon deposits, maintaining the cleanliness of engines and boilers. Octamar™ MP-3 PLUS is particularly valuable on vessels that are having smoke problems. CONTAINER: 53-gal. steel drums (414 lbs).



Octamar™ MP-55: Octamar™ MP-55, an ash inhibitor organo-metallic additive for marine boilers burning high quality fuels. It allows shipping companies to successfully burn lower quality and less expensive fuels. It is very effective in reducing high and low temperature ash deposits throughout the boiler. CONTAINER: 53-gal. steel drums.

Octamar™ MP-4: Octamar™ MP-4, an ash inhibitor organo-metallic additive for residual marine fuels. Octamar™ MP-4 keeps ash and super-heater tubes free from ash and unburned carbon. It removes residual fuel and is intended for use in diesel engines. CONTAINER: 53-gal. steel drums (450 lbs).

Octamar™ EB-1: is a concentrated, oil based slop oil and water content slop oil emulsions.

Octamar™ SEA-L-SAVER: Octamar™ SEA-L-SAVER is a water based oils and fluids, improving their efficiency and reducing wear on seals in stern tubes, bow thrusters and hydraulic systems. It is used from lubricating and hydraulic systems. CONTAINER: 53-gal. steel drums.

Industrial Detergent

Seprac 8: is a fast breaking solvent emulsifier containing detergents. CONTAINERS: 5-gal. pails, 55-gal. steel drums.

Multi Functional Marine Diesel

Octamar™ MMD Series: Octamar™ MMD series are formulated with a combustion catalyst that keeps the fuel system clean and improves cetane number, provides injector detergency and improves fuel economy. It removes and prevents deposits in the fuel system and is designed for handling at low temperatures. CONTAINER: 53-gal. steel drums.

Octamar™ 2600C MMD, Octamar™ 2650C MMD