DIESEL 9•1•1® For Winter Emergencies

TECHNICAL BULLETIN 8000

POWER SERVICE

DIESEL 9•1•1 BENEFITS

- De-ices frozen fuel-filters — no requirement to change fuel-filters
- Prevents fuel-filter icing
- Reliquefies gelled fuel in minutes — no tow truck needed
- Removes water from fuel system — extends life of fuel-filters, fuel-injection pumps and fuel injectors
- Contains ***Slickdiesel***® for maximum fuel lubrication — protects against Low and Ultra Low Sulfur Diesel (ULSD) wear
- ULSD compliant — contains less than 15 parts per million (ppm) sulfur
- Effective in all diesel fuels, including ULSD and biodiesel blends containing up to 20% biodiesel (B20)

DIRECTIONS FOR USING DIESEL 9•1•1— SOLVES WINTER FUEL EMERGENCIES

To De-Ice Frozen Fuel-Filters

Water is dissolved in and carried by all diesel fuels. At temperatures below +32°F., water that has collected in fuel-filters freezes. This causes decreased fuel flow to the engine and results in reduced engine power or engine shutdown.

To de-ice frozen fuel-filters, check to ensure that diesel fuel in the equipment fuel tanks is not gelled. If fuel is liquid:

1. Remove fuel-filters.
2. Empty remaining liquid from fuel-filters.
3. Fill fuel-filters with 50% **Diesel 9•1•1**® and 50% diesel fuel.
4. Reinstall fuel-filters.
5. Start engine.
6. If outside temperature is below +20°F., add Power Service® **Diesel Fuel Supplement**®**+Cetane Boost**® as directed to prevent fuel gelling.

To Reliquefy Gelled Diesel Fuel

During cold weather operation, diesel fuel that has not been treated with Power Service **Diesel Fuel Supplement +Cetane Boost** can change from a liquid to a solid. This transformation is called gelling.

To reliquefy gelled diesel fuel:

1. Add 80 ounces of **Diesel 9•1•1** to each 100 gallons of fuel in equipment tanks.
2. Remove fuel-filters.
3. Fill fuel-filters with 50% **Diesel 9•1•1** and 50% diesel fuel.
4. Reinstall fuel-filters.
5. Start engine — let idle to warm up fuel system before resuming normal operation.
6. Add Power Service **Diesel Fuel Supplement +Cetane Boost** as directed to prevent further gelling.

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POWERSERVICE

To Remove Water and Prevent Fuel-Filter Icing

Diesel fuel systems accumulate water during normal operations. The constant recirculation of diesel fuel for lubrication and cooling of fuel injectors causes thermal variations within fuel tanks and produces water in the form of condensation. Water can also be introduced into a fuel system from fuel suppliers that do not periodically check their fuel-handling equipment for water contamination.

Refer to the table below to determine the amount of **Diesel 9•1•1®** to add to your fuel. For biodiesel blends containing a maximum of 20% biodiesel (B20), add two times the amount of additive listed below:

Gals Diesel Fuel to Treat	Ounces of Additive Required	Gals Diesel Fuel to Treat	Ounces of Additive Required
3 gal	1 oz	100 gal	32 oz
40 gal	16 oz	250 gal	80 oz

TYPICAL PHYSICAL PROPERTIES OF DIESEL 9•1•1

Color ..... Straw Yellow
Density (lbs/gal) 6.73
Sulfur Content ..... <15 parts per million (ppm)
Flash Point ..... 65°F.
Pour Point ..... -65°F.
Shelf Life ..... Indefinitely In Sealed Container
Solubility
- In Diesel Fuel ..... Completely Soluble
- In Biodiesel and Biodiesel Blends ..... Completely Soluble
- In Kerosene ..... Completely Soluble

Shipping and Handling
- Part Nos. 8016, 8025, 8080 ..... Consumer Commodity ORMD
- Part Nos. 8050, 8055 ..... Flammable Liquid N.O.S. UN 1993 (Hydroxy Compounds)

Use of Diesel 9•1•1 will not harm oxidation catalysts or diesel particulate filters on 2007 or newer engines.

This diesel fuel additive complies with the federal low sulfur content requirements for use in diesel motor vehicles and nonroad engines.

	PART#	PACK	TREATS
NEW	8016-09	9/1 16-Ounce	Up to 40 Gallons
	8025-12	12/1 32-Ounce	30 to 75 Gallons
	8080-06	6/1 80-Ounce	100 to 200 Gallons
	8050-02	Two/2.5-Gallon	Up to 500 Gallons
	8055	55-Gallon Drum	Up to 11,000 Gallons

POWER SERVICE® Diesel Additives

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