



— WITH COMBUSTION CATALYST —

PRODUCT DEPLOYMENT & BEST PRACTICES GUIDE



THE FUELOX

- REMOVES
REGENERATIONS
/EMISSIONS
- REMOVES
WATER
- INCREASES
FUEL
ECONOMY
& POWER
- STABILIZES
FUEL
- CLEANS &
LUBRICATES

TREATS 1250 GALLONS - TREATS DIESEL AND GASOLINE
16 FL OZ
DOES NOT CONTAIN ALCOHOL



TREAT RATIO
1:10,000



SDS REVISION
FEBRUARY 28, 2024





ISSUED BY
ISG International | fuelox.com

01 | PRODUCT OVERVIEW

Fuel Ox[®] with Combustion Catalyst is a patented organometallic fuel treatment with an industry-leading treat ratio of **1:10,000**.

Competing products typically require 3 to 7 times more volume to treat the same quantity of fuel.

TREAT AMOUNT		FUEL TREATED
	1 oz (30 mL)	625 gal (2,366 L)
	1 gal (3.8 L)	10,000 gal (37,854 L)
	55 gal drum (208 L)	550,000 gal (2,082,000 L)

WHAT IT DELIVERS



5–10%

Fuel Efficiency Gain



Up to 70%

Emissions & Regen
Reduction



2 Years

Fuel Stabilization



15x or More

Return on
Additive Cost

01

PRODUCT OVERVIEW (CONTINUED)

ACTIVE BENEFITS IN EVERY TANK



Removes water — de-emulsifier drops free water to tank bottom for removal



Built-in maintenance-level biocide continuously inhibits microbial growth



Advanced detergency — keep-clean AND clean-up on injectors and combustion chambers



Strong stabilizers extend the life of stored fuel



Compatible with diesel, biodiesel blends, kerosene, gasoline/petrol, and heavy fuel oil

WHY TREAT AT DELIVERY?



MAXIMUM MIXING

Adding Fuel Ox as fuel enters the tank ensures complete dispersion throughout the entire load — no hot spots, no unmixed product. If you cannot add at delivery, Fuel Ox will self-disperse over a few hours. Adding before or during fueling always produces the best mix.



INSTANT PROTECTION

Stabilizers, biocide, and de-emulsifier go to work immediately — protecting fuel from the moment it enters storage.



COMBUSTION READY

The Combustion Catalyst integrates fully before first draw, ensuring every gallon (liter) pulled delivers the full efficiency gain.









ONE SIMPLE STEP

No special equipment needed. One jug, one pour. Less than 60 seconds per tank.

02

SELECTING THE RIGHT CONTAINER

Select your container based on the volume of fuel being treated.
The treat ratio is fixed at **1:10,000** (by volume) in any unit system.

CONTAINER	TREATS	BEST FOR	USAGE NOTES	PRE-MEASURED DOSE (OZ / ML)
 Pre-measured dose (oz / mL)	Up to 80 gal / 303 L	Individual vehicles & equipment		~0.5–1 oz / 15–30 mL
 ¾ Gallon Jug (2.8 L)	7,500 gal / 28,390 L	In-ground tanks 5,000–10,000 gal		2.8 L per fill
 1 Gallon Jug (3.8 L)	10,000 gal / 37,854 L	In-ground & above-ground tanks 10,000+ gal		3.8 L per fill
 1 Liter	10,000 L / 2,642 gal	Metric-scale operations		1 L per fill
 3 Liters	30,000 L / 7,925 gal	Large above-ground metric tanks		3 L per fill
 55 Gal Drum (208 L)	550,000 gal / 2,082,000 L	Bulk terminals, large fuel farms		Drum pump at manifold

TREAT RATIO QUICK REFERENCE:



1 oz (30 mL) = 625 gal (2,366 L)



1 gallon (3.8 L) = 10,000 gal (37,854 L)



1 liter = 10,000 liters (2,642 gal)



1 drum — 55 gal / 208 L = 550,000 gal / 2,082,000 L

03

HOW TO DOSE — STEP BY STEP (ALL APPLICATIONS)

Follow these four steps for any application — individual vehicle, in-ground tank, or above-ground tank.

STEP
1



CONFIRM TANK OR EQUIPMENT VOLUME

Know your capacity and select the correct container:
¾ gallon (2.8 L) for up to 7,500 gal (28,390 L);
1 gallon (3.8 L) for 10,000 gal (37,854 L);
1 liter for 10,000 liters; 3 liters for 30,000 liters (7,925 gal).
For individual vehicles, a few ounces or milliliters is all that is needed — see application guides below.

STEP
2



POSITION AT FILL POINT

Stand at the fill point. Have your pre-measured jug ready to add to the fuel tank or hose at the time of fuel transfer.

STEP
3



POUR AS FUEL ENTERS

Pour steadily as fuel flows in. Incoming fuel turbulence carries the treatment throughout the entire volume — no stirring required.

STEP
4



LET THE FLOW DO THE WORK

No mixing equipment, no pumps, no extra steps.
Treatment disperses completely on its own.
Done in under 60 seconds.

04

APPLICATION 1 — INDIVIDUAL TRUCKS & EQUIPMENT



APPLIES TO: diesel trucks, cars, heavy equipment, buses, generators, marine engines, and any individual-vehicle fuel tank up to 80 gallons (303 L).



DOSE RATE: 1 oz (30 mL) treats up to 80 gal (303 L)

- ✓ Pour the correct dose into the fuel tank at the fill neck before or during fueling.
- ✓ Fuel flowing in naturally mixes the treatment throughout the tank. If added after fueling, vehicle movement mixes the additive quickly.
- ✓ Works in diesel trucks, cars, heavy equipment, buses, generators, and marine engines.
- ✓ Can also be dosed at bulk nozzles for fleet fill-up operations.
- ✓ No measuring cups needed — Fuel Ox bottles are clearly marked by dose size.



BEST PRACTICE

Dose at the pump or fill neck before or during fueling for best dispersion. Bottles are pre-marked — no measuring required.

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APPLICATION 2 — IN-GROUND STORAGE TANKS



APPLIES TO: retail fuel station underground tanks, fleet yard storage tanks, and municipal bulk tanks.



DOSE RATE:

- 1 gal (3.8 L) treats 10,000 gal (37,854 L)
- ¾ gal (2.8 L) treats up to 7,500 gal (28,390 L)



OPTION A — DOSE BEFORE DELIVERY (PREFERRED)

- ✓ Pour Fuel Ox into the tank fill pipe before the tanker connects.
- ✓ Incoming fuel does the mixing automatically — no additional action required.



OPTION B — DOSE AFTER DELIVERY

- ✓ Pour Fuel Ox into the fill pipe after tanker offload.
- ✓ Follow with a small pump recirculation if available.
- ✓ If recirculation is not available, Fuel Ox will self-disperse throughout the tank over a few hours.



ADDITIONAL BENEFITS FOR IN-GROUND TANKS



Protects against microbial growth, water accumulation, and oxidative degradation at rest



Stabilizes fuel stored for extended periods between draws



Suitable for retail, fleet yard, and municipal bulk tank applications



BEST PRACTICE

Dosing before delivery is preferred — incoming fuel turbulence achieves the most thorough mix. Post-delivery dosing is fully effective but requires a few hours for self-dispersion if no recirculation pump is available.



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APPLICATION 3 — ABOVE-GROUND STORAGE TANKS



APPLIES TO: mining site fuel farms, agricultural storage, standby generator tanks, marine fuel depots, and large-volume above-ground tanks.



DOSE RATE:

- 1 drum — 55 gal (208 L) treats 550,000 gal (2,082,000 L)



LARGE VOLUME APPLICATION

- ✓ Pour Fuel Ox into the hose connecting the delivery truck to the storage tank. The volume required is usually less than a gallon (3.8 L) or a few liters — the delivery hose is typically large enough to accommodate it.
- ✓ For very large tanks, dose proportionally:
 - 1 gallon (3.8 L) per 10,000 gallons (37,854 L)
 - 3 liters per 30,000 liters (7,925 gal) of fuel being delivered
- ✓ Ideal for mining site fuel farms, agricultural storage, standby generator tanks, and marine fuel depots.



VANTAGE NOTE

For tanks that sit for extended periods — standby generators, seasonal equipment, long-haul fuel farms — specify **Fuel Ox Vantage™**.



Formulated for **24+ month stabilization**



ADDITIONAL BENEFITS FOR ABOVE-GROUND TANKS



Ideal for mining site fuel farms



Agricultural storage



Standby generator tanks



Marine fuel depots



Large-volume storage facilities



Up to 2-year fuel stabilization with Fuel Ox Vantage™



LARGE VOLUME SCALING

Treat ratio scales linearly.

GALLONS:



















$$(\text{Tank Volume} \div 10,000) = \text{Gallons of Fuel Ox Required}$$

LITERS:

$$(\text{Tank Volume in Liters} \div 10,000) = \text{Liters of Fuel Ox Required}$$

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QUICK REFERENCE — DOSING CHART

APPLICATION	TANK / VOLUME	CONTAINER	METHOD
 Individual Vehicle / Equipment	Up to 80 gal (303 L)	 Pre-measured dose	 Pour at fill neck during fueling
 In-Ground Tank	Up to 7,500 gal (28,390 L)	 ¾ Gallon Jug (2.8 L)	 Pour at fill pipe before or during delivery
 In-Ground Tank	Up to 10,000 gal (37,854 L)	 1 Gallon Jug (3.8 L)	 Pour at fill pipe before or during delivery
 Above-Ground Tank	Up to 10,000 gal (37,854 L)	 1 Gallon Jug (3.8 L)	 Pour at fill hatch as tanker offloads
 Above-Ground Tank	10,000–20,000 gal (37,854–75,708 L)	 2 × 1 Gal Jugs (2 × 3.8 L)	 Pour consecutively at fill hatch during offload
 Bulk Terminal / Large Farm	550,000 gal (2,082,000 L)	 55 Gal Drum (208 L)	 Drum pump dose at fill manifold during delivery

TREAT RATIO:



1 oz (30 mL) =
625 gal (2,366 L)



1 gal (3.8 L) =
10,000 gal (37,854 L)



1 drum 55 gal (208 L) =
550,000 gal (2,082,000 L)

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CONCENTRATION ADVANTAGE



Fuel Ox is the most concentrated fuel additive on the market. Most competing additives require 3 to 7 times more product to treat the same volume of fuel — more jugs, more handling, higher cost per gallon (liter) treated.

PRODUCT	TREAT RATIO	VOLUME PER GALLON / LITER TREATED
	1:10,000	1 oz per 80 gal (1 mL per 2.6 L)
TYPICAL COMPETITOR A	1:3,000	1 oz per 23 gal (1 mL per 0.8 L)
TYPICAL COMPETITOR B	1:2,000	1 oz per 16 gal (1 mL per 0.5 L)
TYPICAL COMPETITOR C	1:1,000	1 oz per 8 gal (1 mL per 0.25 L)



**USE LESS.
TREAT MORE.**



**FEWER JUGS.
LESS HANDLING.**



**LOWER COST
PER GALLON TREATED.**



**MAXIMUM PROTECTION
PER DROP.**

09

SAFETY REQUIREMENTS (PER SDS — REV. FEBRUARY 2024)

All personnel handling Fuel Ox with Combustion Catalyst must review and follow this section prior to use. Information is sourced directly from the official Safety Data Sheet (SDS), revised February 28, 2024.



GHS CLASSIFICATION

 **Health Hazard:** Carcinogenicity Category 1B — H350 (May cause cancer)

 **Signal Word: DANGER**

 **Aspiration Hazard** (naphtha component): H304 — May be fatal if swallowed and enters airways

NFPA HEALTH
3
(Serious Hazard)

NFPA FIRE
2
(Moderate)


NFPA REACTIVITY
0
(Stable)

 **CALIFORNIA PROPOSITION 65**

This product does not contain any substances known to the state of California to cause cancer, developmental, and/or reproductive harm.

SAFETY REQUIREMENTS SUMMARY

 <p>PPE REQUIRED</p> <p>Protective gloves, safety glasses (goggles if splash risk), protective clothing, respiratory protection.</p>	 <p>INHALATION HAZARD</p> <p>Ensure good ventilation at work station. Remove to fresh air if inhaled.</p>	 <p>SKIN / EYE CONTACT</p> <p>Wash skin with plenty of water. Rinse eyes with water as a precaution.</p>	 <p>STORAGE</p> <p>Store locked up in a cool, well-ventilated place away from heat. Keep in original container.</p>	 <p>FLASH POINT</p> <p>161–162 °F (72 °C) NFPA Flammability Rating 2 (Moderate). No direct fire or explosion hazard.</p>	 <p>SPILL RESPONSE</p> <p>Absorb with sand or earth. Contain with dikes. Notify authorities if product enters sewers or public waterways.</p>
 <p>DISPOSAL</p> <p>Dispose of contents and container per official regulations at an authorized waste disposal site.</p>	 <p>TRANSPORT</p> <p>Not DOT regulated in containers under 119 gallons (450 L). Not regulated under IMDG, IATA, or TDG.</p>				

 **CARCINOGENICITY NOTE**

GHS Carcinogenicity Category 1B (H350 — May cause cancer) due to petroleum-derived components. Handle per SDS precautions.

EMERGENCY CONTACTS

 EMERGENCY / CHEMTREC (24/7): +1-844-838-3569	 NON-EMERGENCY / PRODUCT QUESTIONS: +1-908-747-4375 (M–F, 8:30 AM–4:30 PM EST)	 GENERAL INQUIRIES: info@fuelox.com	 IN ANY EMERGENCY: CALL 911 FIRST
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COMPATIBLE FUELS



Diesel
(all grades)



Biodiesel
blends



Kerosene



Gasoline /
Petrol



Heavy fuel
oil (HFO)



STORAGE REQUIREMENTS



Store locked up in a cool, well-ventilated location away from heat sources.



Keep in original container only — do not transfer to unlabeled or incompatible containers.



Do not re-use empty containers.



Flash point: 161–162 °F (72 °C) — keep away from open flame and high-heat environments.



Store separate from working clothes; launder separately if contaminated.



TRANSPORT



Not DOT regulated in containers under 119 gallons (450 L)



Not regulated under IMDG (maritime), IATA (air), or TDG (Canada)



No UN number, no hazmat placard required for standard distribution quantities.



READY TO TREAT YOUR FLEET?

Fuel Quality. Fuel Stability. Fuel Efficiency.

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dba Fuel Ox®

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*Sourced from the Fuel Ox Field Dosing Guide and official
Fuel Ox with Combustion Catalyst SDS (Rev. February 28, 2024).*