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Performance Solutions
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MEGASEL

Diesel Fuel System Treatment – New, Highly Concentrated formula with METALON



PACKAGING

- > 12 x 250 ml
- > 12 x 1 Litre
- > 4 Litre
- > 4 x 4 Litre
- > 20 Litre (Pail)
- > 205 Litre (Drum)

VCH Ventures

Authorized Dealer in Metalon Products

4787 – 68TH Ave. SE
Calgary, Alberta, T2C 5C1
Phone: 403.816.2408
Fax: 403.255.0374

Metalon Products

A div. of Professional Products of Canada Inc.

2624 Royal Windsor Drive, Unit 7
Mississauga, Ontario, L5J 1K7
Phone: 905.855.4826
Fax: 905.855.9900

Richard Distefano

President / CEO Metalon Products

5205 Blue Stem Court
Raleigh, North Carolina, 27606
Phone: 919.834.9444
Fax: 866.448.1421

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INFORMATION and ASTM/ENGINEERING DATA

MEGASEL DIESEL FUEL SYSTEM TREATMENT, now with **METALON**, is a new and improved hydrocarbon complex that is used to maintain distillate fuel in a sludge-free stabilized condition. **MEGASEL** arrests many of the problems related to storage, transportation and combustion of fuels used in diesel turbines, fuel-oil burning boilers, steam generators and internal combustion engines.

Diesel fuel stability is adversely affected by the widespread practice of blending fuels from different sources. Fuel degradation is accelerated causing sludge and bacteria formation and reduced combustibility. Sticking fuel injectors, contaminated fuel lines, filters and pumps waste costly fuel, reduce operating efficiency and increase maintenance costs. The problems of corrosion, rust, acid formation and water damage are also prevalent in diesel fuel systems.

MEGASEL DIESEL FUEL SYSTEM TREATMENT incorporates the quality multi-functional components required to efficiently arrest the inherent problems noted. In addition, **METALON** bonds chemically with the metal component molecules, forming a microscopic, monomolecular friction-reducing, wear resistant shield that **will not drain off**. The **burnishing action** of **METALON** produces a more precise metal-to-metal fit that increases component life. The efficiency of the critical fuel injectors is substantially enhanced, maintaining consistent spray patterns and accurate fuel metering. Upper cylinders are lubricated. Cold weather 'gelling' is also retarded. Water droplets a great potential hazard when locked in suspension are emulsified (broken up) and allowed to pass through the system efficiently. **MEGASEL** is virtually ashless (contains no in-organics or metallics), is compatible with most hydrocarbon fuel stocks and is non-extractable. **MEGASEL** dissolves carbon deposits, reduces black smoke and other emissions considered harmful to the environment. **MEGASEL** components comply with the EPA regulations listed in the Additives Manufacturer Notification, form EPA(DUR)365.

MEGASEL DIESEL FUEL SYSTEM TREATMENT, when used continuously as directed, helps to:

- | | | |
|-------------------------------|-----------------------------|----------------------------------|
| > CLEAN AND PROTECT INJECTORS | > LUBRICATE UPPER CYLINDERS | > FREE STICKY VALVES |
| > PREVENT FUEL SYSTEM ICING | > KEEP FUEL SYSTEM CLEAN | > ARREST SYSTEM RUST / CORROSION |
| > ELIMINATE CARBON DEPOSITS | > IMPROVE FUEL COMBUSTION | > NEUTRALIZE ACIDS |
| > REDUCE BLOW-BY DILUTION | > SPEED SUB-ZERO STARTS | > PREVENT SLUDGE FORMATION |
| > REDUCE EXHAUST EMISSIONS | > CONTROL CONDENSATION | > RETARD BACTERIAL GROWTH |
| | | > IMPROVE POWER AND ECONOMY |

INSPECTION DATA:

(According to ASTM Specifications)

DESCRIPTION	ASTM METHOD	TEST RESULTS
Specific Gravity @ 60 °F (15 °C)	D-1298	0.8418
Gravity A.P.I. @ 60 °F (15 °C)	D-1298	36.6
Viscosity SUS @ 100 °F (37.7 °C)	D-88	31.5 (1.7 cSt)
Colour	D-1500	1-Light Amber
Appearance	D-1500	Bright and Clear
Flash Point °F (°C) (PM Closed Cup)	D-93	70 (21)
Cloud Point °F (°C)	D-97	00.0 (.17)
Pour Point °F (°C)	D-97	-90 (-67)
B.T.U. per Gallon	D-1405	168,304
Sulfur Content (% by weight)	D-1266	0.04
BS W., Water, Sediment (% by volume)	D-96	0. 0. 0.
Rust Test (Synthetic Sea Water)	D-665	Pass
Corrosion Test, Copper Strip @ 212°F (100 °C)	D-139	1a – Pass

DIRECTIONS:

Initial Treatment:

MEGASEL should be added before filling the tank to aid blending, especially if there is no agitation.

Add 20 mL of **MEGASEL** to every 40 litres of No. 1 and No. 2 diesel fuel to clean and prime the system.

Regular Treatment:

Add 10 mL to every 40 litres. For No. 3 to No. 6 fuels, **double or triple treatment**, respectively.

CAUTION:

MEGASEL is flammable. Keep away from open flame or spark. It contains petroleum distillates. If swallowed, **DO NOT** induce vomiting. Call a physician immediately.

NOTE: The information and data presented herein are based on tests, reports and research we believe to be accurate and reliable. The information and data are provided without warranty, guarantee or liability on our part and are therefore, provided to customers for their own investigation, verification and consideration.

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A1:	Company Identification					
METALON PRODUCTS – A division of Professional Products of Canada Inc. 2624 Royal Windsor Drive, Unit 7, Mississauga, Ontario, L5J 1K7 Fax: (905) 855-9900 Tel: (905) 855-4826 Emergency No. (613) 996-6666						
A2:	Chemical Product					
MEGASEL DIESEL FUEL TREATMENT						
PRODUCT NAME	MEGASEL					
CHEMICAL FORMULA	COMPLEX LUBRICANT/INJECTOR CLEANER					
PRODUCT FAMILY	SOLVENT/DETERGENT, PERFORMANCE ADDITIVE					
MATERIAL USE	DIESEL FUEL SYSTEM TREATMENT, DISPERSANT					
T.D.G. CLASSIFICATION	FLAMMABLE LIQUIDS, N.O.S.; (UN/PIN 1993); (CLASS 3.0), (P.G. II)					
B:	Composition/Information on Ingredients			C:	Hazards Identification	
Hazardous Ingredients	%	T.L.V.	C.A.S. #	LD/50 Route, Species	LC/50 Route, Species	
HYDRO-TREATED LIGHT DISTILLATE	10-40	300 ppm	64742-47-8	8000 mg/kg, ORAL-RAT	>2500 ppm/4H INH-RAT	
ISOPROPYL ALCOHOL	1-15	400 ppm	67-63-0	5045 mg/kg RAT, ORAL	22,640 PPM/44 CALC, RAT	
NAPHTHENIC OIL, NOT REGULATED	30-50	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
DISPERSANT, NOT REGULATED	1-7	NOT APPLICABLE	NOT APPLICABLE	>8 g/kg RAT, ORAL, DERMAL	INHALED, NOT AVAILABLE	
CHLORO ALKANES	10-20	5 mg/m3	63449-39-8	>4 g/kg ORAL	NOT AVAILABLE	
D:	First Aid Measures					
SKIN CONTACT	WASH AFFECTED AREA, REMOVE CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, CONSULT A DOCTOR.					
EYE CONTACT	FLUSH EYES WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES; GET MEDICAL ATTENTION.					
INHALATION	REMOVE VICTIM TO FRESH AIR. IF VICTIM IS NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION IMMEDIATELY. GET IMMEDIATE MEDICAL ATTENTION.					
INGESTION	DILUTE WITH LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.					
E:	Fire Fighting Measures					
FLAMMABILITY	FLAMMABLE					
IF YES, UNDER WHICH CONDITIONS?	MUST BE EXCESSIVELY HEATED BEFORE IGNITION WILL OCCUR.					
MEANS OF EXTINGUISHING?	WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, FOAM					
SPECIAL PROCEDURES	KEEP STORAGE CONTAINERS COOL IN FIRE VICINITY FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING					
FLASH POINT °C (°F)	21.3 °C (70.3 °F)					
AUTO IGNITION TEMPERATURE	NOT AVAILABLE					
UPPER EXPLOSION LIMIT	11.98 VOLUME %					
LOWER EXPLOSION LIMIT	2.04 VOLUME %					
HAZARDOUS COMBUSTION PRODUCTS	OXIDES OF CARBON					
SENSITIVITY TO STATIC DISCHARGE	YES					
SENSITIVITY TO IMPACT	NO, NOT UNDER NORMAL HANDLING CONDITIONS					
F:	Accidental Release Measures					
LEAK/SPILL	SMALL SPILLS: STOP FLOW, CONTAIN MATERIAL, COLLECT IN PROPER CONTAINERS. REMOVE ALL SOURCES OF IGNITION. PROVIDE ADEQUATE VENTILATION.					
G:	Handling and Storage					
HANDLING PROCEDURES & EQUIPMENT	HANDLE AN OPEN CONTAINER WITH CARE. HANDLE AWAY FROM ALL SOURCES OF IGNITION. AVOID SMOKING. KEEP CONTAINER CLOSED.					
STORAGE NEEDS	KEEP AWAY FROM HEAT AND FLAME. KEEP FROM FREEZING. STORE AT ROOM TEMPERATURE IN WELL VENTILATED AREA.					
H:	Exposure Controls / Personal Protection					
PROTECTIVE EQUIPMENT						
GLOVES/TYPE	WEAR NEOPRENE GLOVES IF DIRECT CONTACT IS LIKELY					
RESPIRATORY/TYPE	WEARING OF NIOSH MASK APPROVED FOR ORGANIC VAPORS OR (SCBA), IF APPROPRIATE					
EYE/TYPE	SPLASH-PROOF SAFETY GOGGLES					
FOOTWEAR/TYPE	SAFETY BOOTS PER LOCAL REQUIREMENTS					
CLOTHING/TYPE	WEAR ADEQUATE PROTECTIVE CLOTHES					
OTHER/TYPE	EMERGENCY SHOWER AND EYE WASH STATION SHOULD BE IN CLOSE PROXIMITY TO WORK AREA					
ENGINEERING CONTROLS	LOCAL EXHAUST AT POINTS OF EMISSION					

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A2:	Chemical Product		
MEGASEL DIESEL FUEL TREATMENT			
I:	Physical and Chemical Properties		
PHYSICAL STATE	LIQUID	EVAPORATION RATE	0.2 (n-BUTYL ACETATE = 1)
ODOR/APPEARANCE	MILD ODOR/AMBER, CLEAR	FREEZING POINT	NOT AVAILABLE
ODOR THRESHOLD	NOT AVAILABLE	SPECIFIC GRAVITY	0.84
VAPOR DENSITY (AIR=1)	NOT AVAILABLE	ph	NOT AVAILABLE
VAPOR PRESSURE	NOT AVAILABLE	BOILING POINT	106 °C
VOLATILES: % BY VOLUME	NOT AVAILABLE	SOLUBILITY IN WATER (20 °C)	PARTIALLY SOLUBLE
% BY WEIGHT	NOT AVAILABLE	COEFFICIENT WATER/OIL DIST	NOT AVAILABLE
J:	Stability and Reactivity		
CHEMICAL STABILITY	YES	PRODUCT IS STABLE	HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
COMPATIBILITY WITH OTHER SUBSTANCES	NO	WHICH CONDITIONS?	
REACTIVITY, WHAT CONDITIONS?	YES		
HAZARDOUS PRODUCTS OF DECOMPOSITION	NO	WHICH PRODUCTS?	STRONG OXIDIZERS AND REDUCING AGENTS
			EXCESSIVE HEAT, STRONG OXIDIZERS, ACIDS AND BASES
			OXIDES OF CARBON.
K:	Toxicological Information		
ROUTE OF ENTRY:			
SKIN CONTACT		POSSIBLE IRRITATION	
SKIN ABSORPTION		LOW ORDER OF TOXICITY	
EYE CONTACT		IRRITATION	
INHALATION		VAPORS MAY CAUSE RESPIRATORY TRACT IRRITATION, NAUSEA, HEADACHE AND DIZZINESS.	
INGESTION		MAY CAUSE NAUSEA, VOMITING, DIARRHEA, CENTRAL NERVOUS SYSTEM DEPRESSION.	
EFFECTS OF CHRONIC EXPOSURE		CONJUNCTIVITIS, TRACHEITIS, DERMATITIS, NARCOSIS.	
EFFECTS OF ACUTE EXPOSURE		NO EVIDENCE OF ADVERSE EFFECTS	
LD/50 OF MATERIAL, SPECIES & ROUTE		SEE SECTIONS (B) & (C)	
LC/50 OF MATERIAL, SPECIES & ROUTE		SEE SECTIONS (B) & (C)	
EXPOSURE LIMIT OF MATERIAL		SEE SECTIONS (B) & (C)	
IRRITATION CAUSED BY MATERIAL		SEE EFFECTS OF ACUTE EXPOSURE, SEE ROUTE OF ENTRY	
SENSITIZING CAPABILITY OF MATERIAL		IN SUSCEPTIBLE INDIVIDUALS	
CARCINOGENICITY OF MATERIAL		NONE KNOWN	
REPRODUCTIVE EFFECTS		NONE KNOWN	
MUTAGENICITY		NONE KNOWN	
TERATOGENICITY		NONE KNOWN	
SYNERGISTIC MATERIALS		NONE KNOWN	
L:	Ecological Information		
LEAK/SPILL	LARGE SPILLS:	PREVENT RUN-OFF INTO DRAINS, SEWERS AND WATERWAYS. WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINST HAZARDS & DISPOSE AS PER APPROVED LOCAL WASTE DISPOSAL METHOD. FOLLOW INSTRUCTIONS FOR SMALL SPILLS	
M:	Disposal Considerations		
WASTE DISPOSAL, METHOD & EQUIPMENT	IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.		
N:	Transport Information		
T.D.G. CLASSIFICATION: FLAMMABLE LIQUIDS, N.O.S.; (UN/PIN 1993); (CLASS 3.0), (P.G. II) PROTECT AGAINST PHYSICAL DAMAGE.			
O:	Regulatory Information		
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.			
P:	Other Information		
NOTE: This information and data are based on tests, reports and research we believe to be accurate and reliable. It is provided herein without warranty, guarantee or liability on our part, and are therefore provided to customers for their own investigation, verification and consideration.			