

Delivering Global
Performance Solutions
since 1982



✓ **KEEPS WEAR IN CHECK**

METALON M

Anti-Wear Friction Fighter



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
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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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Anti-Wear Friction Fighter

INFORMATION and ASTM/ENGINEERING DATA

METALON M is a hydrocarbon complex specifically formulated to help reduce friction and wear of ferrous and non-ferrous metals and save energy. Unlike oil additives, **METALON M** unites chemically with the metal component molecules to form a microscopic, monomolecular wear-resistant shield. Blended with most synthetic or petroleum oils, the exclusive **METALON M** formula helps to reduce maintenance costs and increase production and service life of mechanical equipment.

When combined with conventional metal cutting and machining oils, **METALON M** helps to maintain the sharpness of the tool cutting edges, allows deeper cuts per pass, while producing a smoother finish with less energy.

Applied to the lubrication systems of new equipment, **METALON M** substantially reduces the extensive wear and metal removal associated with "break-in" periods; thereby increasing equipment longevity. **METALON M** creates a burnished, precision fit between mating parts, which reduces friction.

One of the significant and unique characteristics of **METALON M** is its chemical bonding capability. **METALON M** will not drain off metal surfaces during idle periods, but rather remains in place to protect the parts during cold starts.

METALON M is applied at a ratio of 5% (min.) or 100 mL for every two litres of lubricant to Crank Cases, Mechanical Gearboxes, Differentials, Transfer Boxes, Sliding Mechanisms, Cutting and Machining Oils, Bearings, Filtered Compressor Sumps, Bushings and much more. (Some applications may require a higher ratio of **METALON M** to realize maximum benefit as dictated by results and experience.)

INSPECTION DATA:
(According to ASTM Specifications)

<u>DESCRIPTION</u>	<u>ASTM</u>	<u>RESULTS</u>
Specific Gravity	D-1298	1.015
Colour	D-1500	1.5
Flash Point °F (°C)	D-992	200 (94)
Cloud Point °F (°C)	D-97	-40 (-40)
Pour Point °F (°C)	D-97	-60 (-51)
Viscosity, SUS @100 °F (40 °C) @210 °F (100 °C)	D-445 D-445	57 (9.50 cSt) 29.0 (1.90 cSt)
Viscosity Index		30.0
Rust Test (Synthetic Sea Water)	D-665	PASS
Corrosion Test, Copper Strip @ 212 °F (100 °C)	D-130	None
Foam Test (1,2,3)	D-892	No Foam
Ash Content (% by weight)	D-482	.6%
Timken OK Load @ 5% concentration	D-2782	>60 lbs.
Falex Final Torque @4500 lb. Jaw Load	D-2271	<60 in.lbs.

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			
METALON M					
PRODUCT NAME	METALON M				
CHEMICAL FORMULA	COMPLEX LUBRICANT/CLEANER				
PRODUCT FAMILY	ANTI-WEAR FRICTION FIGHTER				
MATERIAL USE	MECHANICAL/METAL SURFACES				
T.D.G. CLASSIFICATION	NOT REGULATED				
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	10-30	300 ppm	64742-47-8	8000 mg/kg, ORAL-RAT	>2500 ppm/4H INH-RAT
CHLORO ALKANES	10-40	5 mg/m3	63449-39-8	>4 g/kg ORAL	NOT AVAILABLE
NAPHTHENIC OIL, NOT REGULATED	30-50	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
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 IF YES, UNDER WHICH CONDITIONS? MEANS OF EXTINGUISHING SPECIAL PROCEDURES	NOT APPLICABLE NOT APPLICABLE. WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, FOAM KEEP STORAGE CONTAINERS COOL IN FIRE VICINITY FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING				
FLASH POINT °C (°F)	>94 °C (202 °F)				
AUTO IGNITION TEMPERATURE	NOT AVAILABLE				
UPPER EXPLOSION LIMIT	NOT APPLICABLE				
LOWER EXPLOSION LIMIT	NOT APPLICABLE				
HAZARDOUS COMBUSTION PRODUCTS	OXIDES OF CARBON				
SENSITIVITY TO STATIC DISCHARGE	NO				
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 RESPIRATORY/TYPE	WEAR NEOPRENE GLOVES IF DIRECT CONTACT IS LIKELY WEARING OF NIOSH MASK APPROVED FOR ORGANIC VAPORS OR (SCBA), IF APPROPRIATE SPLASH-PROOF SAFETY GOGGLES				
EYE/TYPE FOOTWEAR/TYPE CLOTHING/TYPE OTHER/TYPE	SAFETY BOOTS PER LOCAL REQUIREMENTS WEAR ADEQUATE PROTECTIVE CLOTHES 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		
METALON M			
I:	Physical and Chemical Properties		
PHYSICAL STATE	LIQUID	EVAPORATION RATE	NOT AVAILABLE
ODOR/APPEARANCE	MILD ODOR/AMBER, CLEAR	FREEZING POINT	NOT AVAILABLE
ODOR THRESHOLD	NOT AVAILABLE	SPECIFIC GRAVITY	1.015
VAPOR DENSITY (AIR=1)	NOT AVAILABLE	ph	NOT APPLICABLE
VAPOR PRESSURE	NOT AVAILABLE	BOILING POINT	NOT AVAILABLE
VOLATILES: % BY VOLUME	NOT AVAILABLE	SOLUBILITY IN WATER (20 °C)	INSOLUBLE
% BY WEIGHT	NOT AVAILABLE	COEFFICIENT WATER/OIL DIST	NOT APPLICABLE
J:	Stability and Reactivity		
CHEMICAL STABILITY	YES. PRODUCT IS STABLE. HAZARDOUS POLYMERIZATION WILL NOT OCCUR		
COMPATIBILITY WITH OTHER SUBSTANCES	NO, WHICH CONDITIONS? YES		
REACTIVITY, WHAT CONDITIONS?	NO. WHICH PRODUCTS? STRONG OXIDIZERS AND REDUCING AGENTS		
HAZARDOUS PRODUCTS OF DECOMPOSITION	EXCESSIVE HEAT, STRONG OXIDIZERS, ACIDS AND BASES OXIDES OF CARBON.		
K:	Toxicological Information		
ROUTE OF ENTRY: SKIN CONTACT SKIN ABSORPTION EYE CONTACT INHALATION	POSSIBLE IRRITATION LOW ORDER OF TOXICITY IRRITATION 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:	NOT REGULATED		
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.			