

Delivering Global
Performance Solutions
since 1982



✓ **KEEPS WEAR IN CHECK**

METALON SPRAY PENETRANT

Anti Wear

Friction Fighter



PACKAGING

> 12 x 400 gm
(Case)

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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INFORMATION and ASTM/ENGINEERING DATA

METALON SPRAY PENETRANT is a hydrocarbon complex specifically formulated to help reduce wear and friction of ferrous and non-ferrous metals. **METALON** unites chemically with the metal component molecules, forming a microscopic, monomolecular, wear-resistant shield. This exclusive lubricating formula combines the extraordinary features of **METALON** with other components that meet Military Specification requirements. **METALON SPRAY PENETRANT** will help to increase production and service life of equipment, reduce down-time and crucial wasteful maintenance expenditures.

METALON SPRAY PENETRANT is Non-Flammable. This provides an important margin of safety where potential hazards exist. Its high dielectric strength permits effective cleaning and retardation of electrical corrosion. The penetrating and "creep" properties help to free, lubricate and protect rusted and seized components. Moisture is driven out. A little goes a long way, which makes **METALON SPRAY PENETRANT** very cost effective.

APPLICATION: METALON SPRAY PENETRANT; aerosolized for convenience, uses CARBON DIOXIDE (CO₂) as a propellant, which is classed as "OZONE SAFE". Spray at a distance of 6" to 18". Gentle pressure on the nozzle will produce a "conical" spray pattern, whereas full nozzle pressure causes a "Jet Stream" spray. The extension tube allows directional application to remote locations. It will penetrate, clean and lubricate, permitting the device to perform as intended. A protective film is left on exposed surfaces to guard against rust and corrosion.

TYPICAL USES: Tools, Locks, Valves, Guns, Mechanical Linkages, Rusted Bolts, Nuts and Parts, Air Tools, Fishing Gear, Electric Motors, Jack Hammers, Sliding Mechanisms, Bicycles, Hinges, Chainfalls, Chainsaws, Nailing and Fastening Tools, Machine Threads, Tool & Dies, Drilling, Tapping, Metal Drawing and Forming, Broaching, Sawing, Milling Operations, Carburetor Linkages, Motorbikes, Mold Releases (only if non-plastic or natural rubber), etc.

NOTE: METALON SPRAY PENETRANT should be used only with adequate ventilation. Avoid prolonged inhalation of vapors. Some plastics, natural rubber and paint finishes may be adversely affected by overspray. Test on an inconspicuous area first to insure safe application. **METALON SPRAY PENETRANT** cannot repair mechanical or electrical defects.

INSPECTION DATA:

(According to ASTM Specifications)

DESCRIPTION

Specific Gravity
Pour Point °F (°C)
Flash Point °F (°C)
Copper Strip, Corrosion Test
@ 140 °F (60 °C) for 3 hours
Dielectric Strength

ASTM METHOD

D-482
D-97
D-92
D-130

D-117

TEST RESULTS

1.275
-70 (-57)
NON-FLAMMABLE
1a-Pass

37 KV

COMPONENT DESIGNATIONS:

Military
Joint Services
NATO

MIL-C-23411A (YD)
PX24
C-634

PACKAGING: METALON SPRAY PENETRANT is packaged 12 (400g) cans per case.

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 SPRAY PENETRANT						
PRODUCT NAME	METALON SPRAY PENETRANT					
CHEMICAL FORMULA	COMPLEX LUBRICANT/METAL CONDITIONER					
PRODUCT FAMILY	ANTI-WEAR FRICTION FIGHTER					
MATERIAL USE	MECHANICAL/METAL SURFACES, ELECTRICAL CONTACTS					
T.D.G. CLASSIFICATION	CONSUMER COMMODITY					
B:	Composition/Information on Ingredients			C:	Hazards Identification	
Hazardous Ingredients	%	T.L.V.	C.A.S. #	LD/50 Route, Species	LC/50 Route, Species	
TRICHLOROETHYLENE	5-20	1070 mg/cu. m.	79-01-6	4950 mg/kg, RAT, ORAL	8000 ppm/4 HOURS, RAT INHALATION	
CHLORO ALKANES	1-30	5 mg/m3	63449-39-8	>4 g/kg ORAL	NOT AVAILABLE	
HYDRO-TREATED LIGHT DISTILLATE	1 - 5	300 ppm	64742-47-8	8000 mg/kg, ORAL-RAT	>2500 ppm/4H INH-RAT	
CARBON DIOXIDE	1 - 5	5000 ppm	124-38-9	NOT APPLICABLE	NOT AVAILABLE	
ACETONE	3 - 7	750 ppm	67-64-1	>9750 mg/kg RAT, ORAL	>16000 ppm/4H INH-RAT	
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	NON-FLAMMABLE 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)	NONE					
AUTO IGNITION TEMPERATURE	NOT APPLICABLE					
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	WEAR NEOPRENE GLOVES IF DIRECT CONTACT IS LIKELY					
GLOVES/TYPE	WEARING OF NIOSH MASK APPROVED FOR ORGANIC VAPORS OR (SCBA), IF APPROPRIATE					
RESPIRATORY/TYPE	SPLASH-PROOF SAFETY GOGGLES					
EYE/TYPE	SAFETY BOOTS PER LOCAL REQUIREMENTS					
FOOTWEAR/TYPE	WEAR ADEQUATE PROTECTIVE CLOTHES					
CLOTHING/TYPE	EMERGENCY SHOWER AND EYE WASH STATION SHOULD BE IN CLOSE PROXIMITY TO WORK AREA					
OTHER/TYPE	LOCAL EXHAUST AT POINTS OF EMISSION					
ENGINEERING CONTROLS						

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A2:	Chemical Product		
METALON SPRAY PENETRANT			
I:	Physical and Chemical Properties		
PHYSICAL STATE	LIQUID, AEROSOL	EVAPORATION RATE	NOT AVAILABLE
ODOR/APPEARANCE	MILD ODOR/AMBER, CLEAR	FREEZING POINT	NOT APPLICABLE
ODOR THRESHOLD	NOT AVAILABLE	SPECIFIC GRAVITY	1.08
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:	CONSUMER COMMODITY		
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.			