



**SERIOUS SERVICE®**  
Professional Machinery Health Care  
(Fan Doctor®)



**VIBES Corp®**



Est. 1967

Vibration Industrial Balancing & Equipment Services, Corporation

720 - 999 W. Broadway, Vancouver, BC V5Z 1K5

www.vibescorp.ca email: info@vibescorp.ca

Phone: 604 - 619 - 9381 (24/7)

Revised 06/01/13

ILO / WHMIS: Material Safety Data Sheet : Number 0041

Page 1 of 2

<b>A1:</b>	<b>Company Identification</b>				
<p><b>METALON PRODUCTS – A division of Professional Products of Canada Inc.</b> 2624 Royal Windsor Drive, Unit 7, Mississauga, Ontario, L5J 1K7 Fax: (905) 855-9900 Tel: (905) 855-4826 Emergency No. (613) 996-6666</p>					
<b>A2:</b>	<b>Chemical Product</b>				
<b>METALON HI-TECH EP 1.5 GREASE</b>					
PRODUCT NAME		METALON HI-TECH EP 1.5 GREASE			
CHEMICAL FORMULA		COMPLEX LUBRICANT			
PRODUCT FAMILY		ANTI-WEAR FRICTION FIGHTER			
MATERIAL USE		GREASE LUBRICATION			
T.D.G. CLASSIFICATION		NOT REGULATED			
<b>B:</b>	<b>Composition/Information on Ingredients</b>			<b>C: Hazards Identification</b>	
<b>Hazardous Ingredients</b>	<b>%</b>	<b>T.L.V.</b>	<b>C.A.S. #</b>	<b>LD/50 Route, Species</b>	<b>LC/50 Route, Species</b>
OVER-BASED CALCIUM SULFONATE	70-90	NOT APPLICABLE	NOT APPLICABLE	NOT AVAILABLE	NOT AVAILABLE
CHLORO ALKANES	5-30	5 mg/m <sup>3</sup>	63449-39-8	>4 g/kg ORAL	NOT AVAILABLE
<b>D:</b>	<b>First Aid Measures</b>				
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.				
<b>E:</b>	<b>Fire Fighting Measures</b>				
FLAMMABILITY	NOT APPLICABLE				
IF YES, UNDER WHICH CONDITIONS?	NOT APPLICABLE.				
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)	>235 °C (455 °F) CLOSED CUP				
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				
<b>F:</b>	<b>Accidental Release Measures</b>				
LEAK/SPILL	SMALL SPILLS	STOP FLOW, CONTAIN MATERIAL, COLLECT IN PROPER CONTAINERS. REMOVE ALL SOURCES OF IGNITION. PROVIDE ADEQUATE VENTILATION.			
<b>G:</b>	<b>Handling and Storage</b>				
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.			
<b>H:</b>	<b>Exposure Controls / Personal Protection</b>				
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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<b>A2:</b>	<b>Chemical Product</b>		
	<b>METALON HI-TECH EP 1.5 GREASE</b>		
<b>I:</b>	<b>Physical and Chemical Properties</b>		
	<p>PHYSICAL STATE PASTE ODOR/APPEARANCE PLEASANT/ GLOSSY BLUE ODOR THRESHOLD NOT AVAILABLE VAPOR DENSITY (AIR=1) NOT AVAILABLE VAPOR PRESSURE &lt; 5 mg Hg VOLATILES: % BY VOLUME 0.00% % BY WEIGHT 0.00%</p>	<p>EVAPORATION RATE NOT AVAILABLE FREEZING POINT NOT AVAILABLE SPECIFIC GRAVITY 1.0 ph NOT APPLICABLE BOILING POINT NOT AVAILABLE SOLUBILITY IN WATER (20 °C) INSOLUBLE COEFFICIENT WATER/OIL DIST NOT APPLICABLE</p>	
<b>J:</b>	<b>Stability and Reactivity</b>		
	<p>CHEMICAL STABILITY YES. PRODUCT IS STABLE. HAZARDOUS POLYMERIZATION WILL NOT OCCUR NO, WHICH CONDITIONS? COMPATIBILITY WITH OTHER SUBSTANCES 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.</p>		
<b>K:</b>	<b>Toxicological Information</b>		
	<p>ROUTE OF ENTRY: SKIN CONTACT SKIN ABSORPTION EYE CONTACT INHALATION INGESTION EFFECTS OF CHRONIC EXPOSURE EFFECTS OF ACUTE EXPOSURE LD/50 OF MATERIAL, SPECIES &amp; ROUTE LC/50 OF MATERIAL, SPECIES &amp; ROUTE EXPOSURE LIMIT OF MATERIAL IRRITATION CAUSED BY MATERIAL SENSITIZING CAPABILITY OF MATERIAL CARCINOGENICITY OF MATERIAL REPRODUCTIVE EFFECTS MUTAGENICITY TERATOGENICITY SYNERGISTIC MATERIALS</p>	<p>POSSIBLE IRRITATION LOW ORDER OF TOXICITY IRRITATION VAPORS MAY CAUSE RESPIRATORY TRACT IRRITATION, NAUSEA, HEADACHE AND DIZZINESS. MAY CAUSE NAUSEA, VOMITING, DIARRHEA, CENTRAL NERVOUS SYSTEM DEPRESSION. CONJUNCTIVITIS, TRACHEITIS, DERMATITIS, NARCOSIS. NO EVIDENCE OF ADVERSE EFFECTS SEE SECTIONS (B) &amp; (C) SEE SECTIONS (B) &amp; (C) SEE SECTIONS (B) &amp; (C) SEE EFFECTS OF ACUTE EXPOSURE, SEE ROUTE OF ENTRY IN SUSCEPTIBLE INDIVIDUALS NONE KNOWN NONE KNOWN NONE KNOWN NONE KNOWN NONE KNOWN</p>	
<b>L:</b>	<b>Ecological Information</b>		
	<p>LEAK/SPILL LARGE SPILLS:</p>	<p>PREVENT RUN-OFF INTO DRAINS, SEWERS AND WATERWAYS. WEAR PROTECTIVE EQUIPMENT TO PROTECT AGAINST HAZARDS &amp; DISPOSE AS PER APPROVED LOCAL WASTE DISPOSAL METHOD. FOLLOW INSTRUCTIONS FOR SMALL SPILLS</p>	
<b>M:</b>	<b>Disposal Considerations</b>		
	<p>WASTE DISPOSAL, METHOD &amp; EQUIPMENT</p>	<p>IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.</p>	
<b>N:</b>	<b>Transport Information</b>		
	<p>T.D.G. CLASSIFICATION:</p>	<p>NOT REGULATED</p>	
<b>O:</b>	<b>Regulatory Information</b>		
	<p>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>		
<b>P:</b>	<b>Other Information</b>		
	<p><b>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.</b></p>		



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Performance Solutions  
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✓ **KEEPS WEAR IN CHECK**

## METALON HIGH-TECH EP 1.5 GREASE

Superior Multi-use High Temperature Friction Fighter



### PACKAGING

- > 10 x 400 gm
- > 60 x 400 gm
- > 20 kg ( Pail )
- > 55 kg ( Keg )
- > 180 kg ( Drum )



Vendor Compliant for Property Owners, Management Firms of Commercial Buildings, Hospitals, Industrial Sites, & Infra-Structure Facilities



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## METALON HIGH-TECH EP 1.5 GREASE

Superior Multi-use High Temperature Friction Fighter

### INFORMATION and ASTM/ENGINEERING DATA

**METALON HI-TECH EP 1-5 GREASE** is a superior multi-use, high temperature, over-based complex lubricant. The principle of over-basing is not new. Calcium sulphonates have provided mechanical and thermal stability and exceptional resistance to water and corrosion for many years. However, the dispensing, pump-ability and low temperature properties were poor. Through sophisticated research in complexing methods, a new generation of grease has been developed, which offers extra bonuses.

The unique combination of this latest grease technology of over-based complex calcium sulphonates, PLUS 1.5 penetration, PLUS **METALON EP** offers characteristics and qualities unmatched by lithium or other greases. its penetration of **NLGI 1.5** bridges the #1 and #2 grades. reduces inventories and misapplication problems, while enhancing the pump-ability and dispensing properties.

**METALON HI-TECH EP 1.5 GREASE** protects against rust, corrosion, oxidation, water washout and displays excellent stability through temperatures ranging from -40 °C/F to 300 °C(>570 °F) and it is **reversible**. The **METALON** component of the formula will chemically bond to the metal contact surfaces, providing **residual anti-wear protection**, even when the grease is squeezed out.

**METALON HI-TECH EP 1.5 GREASE** is catalogued in the Canadian Government Cataloguing System, (CGCS) and assigned the **NATO Stock No. (NSN 9150-21-905-7275)**, and is listed at the **NATIONAL DEFENSE HEADQUARTERS**.

**TYPICAL USES:** Industrial, Farm Production and Construction Machinery, Automotive, Mining and Marine Equipment, Gears, Bearings, Stuffing Boxes, Automatic Lube Systems, Oven Conveyors, High/Low Speed Mechanisms, Military Equipment, Tractor Fifth Wheels and most other Grease Applications.

**INSPECTION DATA:**  
(According to ASTM Specifications)

DESCRIPTION	ASTM	RESULTS
Dropping Off Point °F (°C)	D-2265	300(575)
<b>Shear Stability:</b>		
Penetration @ 25 °C	D-217	285-315
Worked @ 60 Strokes		1%
Worked @ 10,000 Strokes		2%
Worked @ 100,000 Strokes		285-315
Worked @ 10,000 Strokes w/ 50% Water		+3%
<b>Roll Stability:</b>	D-1831	
<b>Extreme Pressure:</b>		
Timken Value Kg/lb.	D-2509	34/75
4-Ball Wear Test	D-2266	
@ 40 kg-scar (mm)		0.32
LWI, kg	D-2783	70+
Weld Point, kg		500+
<b>Wheel Bearing Leakage:</b>		
gms. @ 325 °F (163 °C)	D-1263	0.4
<b>Water Washout:</b>		
@ 175 °F (79 °C), % Loss	D-1264	<3
<b>Rust, (1=Pass)</b>	D-1743	1,1,1
<b>Corrosion Resistance:</b>		
Copper Corrosion	D-1261	Pass
Bearing Corrosion	D-1743	Pass
<b>Oxidation (PSI Loss)</b>		
@ 100 hours	D-0942	0
@ 500 hours		2
@ 1000 hours		9
<b>Low Temp. Torque</b>		
@ -40 °F (-40 °C)	D-1478	8.0
After 5 minutes		3.7
After 10 minutes		3.5
<b>Base Oil:</b>		
Viscosity, SUS		
@ 100 °F (40.0 °C)	D-2161	600 (cSt)
@ 210 °F (100 °C)	D-2161	70 (cSt)
Pour Point °F (°C)	D-97	+2 (-17)
Flash Point °F (°C)	D-92	475 (245)
<b>Colour-Texture:</b>		Blue, Buttery & Smooth

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