

METALON STUFFING BOX OIL

Anti Wear

Friction Fighter

INFORMATION and ASTM/ENGINEERING DATA

METALON STUFFING BOX OIL (M.S.B.O.) is a Superior Lubricant designed to tackle the unique problems encountered in lubricating Stuffing Boxes.

M.S.B.O. has proven in field tests to reduce Plunger and Packing failures. This Proprietary Formulation provides the Stuffing Boxes with Longer Operating Life, Less Down Time and Lower Maintenance Costs.

M.S.B.O. by incorporating its Exclusive Mono-Molecular Chemical Bonding feature, imparts a Protective, Low Shear, Lubricating Film to Plungers, Packings and all other metal surfaces, that **will not drain off** during idle or down time periods.

PERFORMANCE FEATURES:

M.S.B.O., used as directed helps to:

- > Provide Superior Lubricating Qualities
- > Protects Plungers, Packings and all other Metal Surfaces against Abrasion and excessive wear
- > Combats Corrosions
- > Clean and Eliminate Wax and Varnish deposits

INSPECTION DATA:

(According to ASTM Specifications)

<u>DESCRIPTION</u>	<u>ASTM METHOD</u>	<u>TEST RESULTS</u>
Specific Gravity	D-1298	0.9028
Colour	D-1500	1.0
Flash Point °F (°C) (Open Cup)	D-92	92 (33)
Cloud Point °F (°C)	D-97	-42 (-41)
Pour Point °F (°C)	D-97	-42 (-41)
Viscosity, SUS		
@ 100 °F (40 °C)	D-445	43.5 (5.34 cSt)
@ 210 °F (100 °C)	D-445	31.8 (1.70 cSt)
Corrosion Test, Copper Strip		
@ 212 °F (100 °C)	D-130	1B

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			
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A2:		Chemical Product			
METALON STUFFING BOX OIL					
PRODUCT NAME		METALON STUFFING BOX OIL			
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
HYDRO-TREATED LIGHT DISTILLATE		5-15	300 ppm	64742-47-8	8000 mg/kg, ORAL-RAT
CHLORO ALKANES		10-40	5 mg/m3	63449-39-8	>4 g/kg ORAL
NAPHTHENIC OIL, NOT REGULATED		40-60	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		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)		>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		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		
METALON STUFFING BOX OIL			
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		
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