

WHITMORE'S

MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY					
Product Name:	Moly Dry Film (Aerosol)	Manufacturer/Supplier: The Whitmore Manufacturing Company 930 Whitmore Drive Rockwall, Texas 75087, U.S.A.			
Chemical Family:	Petroleum Hydrocarbon				
Use:	Switch Lubricant Spray				
Emergency Tel. No.:	CHEMTREC U.S.A. & Canada International	800-424-9300 (24 hrs) 703-527-3887 (Collect)			
II. COMPOSITION INFORMATION ON INGREDIENTS					
<u>Hazardous Components</u>	<u>CAS No.</u>	<u>Wt%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits of Exposure</u>
Hydrocarbon Propellant	68476-85-7	25	N/D	1000 ppm	N/D
Ketones	67-64-1 78-93-3	55	>200 ppm	>200 ppm	N/D
Aromatic Hydrocarbon*	1330-20-7 108-88-3	20	N/D	150 ppm	N/D
III. ADVERSE HUMAN HEALTH EFFECTS					
Eyes:	Any eye contact will cause irritation.				
Skin:	Prolonged skin contact will cause irritation.				
Inhalation:	Prolonged breathing of vapors will cause irritation to the respiratory tract, irregular heartbeat and dizziness, weakness, fatigue, nausea, headaches, and possible unconsciousness and even asphyxiation.				
Ingestion:	Ingestion causes gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonia which can be fatal.				
IV. FIRST AID MEASURES					
Eyes:	Flush with large amounts of cold water. If irritation persists, seek medical attention.				
Skin:	Thoroughly wash exposed area with soap and water.				
Inhalation:	Provide fresh air. If breathing difficulty persists, seek medical attention.				
Ingestion:	Do not induce vomiting. If irritation persists, seek medical attention.				
V. FIRE FIGHTING MEASURES					
Extinguishing Media:	Foam, CO ₂ , Dry Chemical				
Unsuitable Extinguishing Media:	Water Jet				
Fire Fighting Protective Equipment:	Use OSHA approved self-contained breathing apparatus.				
VI. ACCIDENTAL RELEASE MEASURES					
Personal Precautions:	Wear plastic or neoprene rubber gloves.				
Environmental Precautions:	Observe all local, state, and federal regulations.				
Spillage:	Absorb with dry, inert material and shovel up.				
VII. HANDLING AND STORAGE					
Handling:	Keep away from open flame or sparks.				
Storage:	Store in metal containers until disposal.				
VIII. EXPOSURE CONTROL/PERSONAL PROTECTION					
Respiratory Protection:	Use an OSHA approved chemical respirator in confined areas or prolonged use over several minutes.				
Hand Protection:	Plastic or Neoprene Rubber Gloves				
Eye Protection:	Safety Goggles				
Body Protection:	None				

HMS SYMBOLS

Health	1
Flammability	4
Reactivity	0
PPI	B

MSDS-345

Effective Date: 1-24-02

Revised Date: 2-5-08

IX. PHYSICAL AND CHEMICAL PROPERTIES							
Physical State:	Aerosolized	Color:	Black	Odor:	Ketone Type		
Boiling Range/point, °F (°C):	-44 (-42)	Melting Point, °F (°C):	N/A				
Flash Point (T.C.C.), °F (°C):	-142 (-97)	Autoignition Temperature, °F (°C):	>500 (>260)				
Explosive Properties:	LEL: 2.6 UEL: 12.8	Evaporation Rate (Butyl Acetate):	>4.6				
Partition Coefficient (Log Pow):	N/A	Vapor Pressure (kPa):	<185				
Density:	0.92	Flammability:	Flammable				
Oxidizing Properties:	None	Solubilities in Water:	<7.0%	Vapor Density:	>2.93	% Volatiles:	75
X. STABILITY AND REACTIVITY							
Stability:	Unstable when heated above 100°F (38°C).						
Conditions to Avoid:	Powerful sources of ignition and extreme temperatures.						
Materials to Avoid:	Strong oxidizing agents.						
Decomposition Products:	Oxides of carbon, sulfur, and hydrocarbons.						
XI. TOXICOLOGICAL INFORMATION							
Acute Toxicity:	N/A	Skin Irritancy:	Very Mild				
Chronic Toxicity:	N/A	Skin Sensitization:	N/A				
Sub-acute/Subchronic Toxicity:	Not Known		Genotoxicity:	Not Known			
California Prop 65:	Not Available		EC Classification (67/548/EEC):	N/D			
Carcinogenicity:	NTP: No	IARC: 2B (Carbon Black)	OSHA:	No			
LC-50:	Unknown		LD-50:	N/A			
XII. ECOLOGICAL INFORMATION							
Possible Effects:	Not determined.						
Behavior:	Relatively well behaved. Bioaccumulation potential nil.						
Environmental Fate:	Not thought to be toxic to marine or land organisms. Fluid is lower density than water. Product is flammable.						
XIII. WASTE DISPOSAL							
Product Disposal:	Do not incinerate. Contact waste disposal company or local authority for advice.						
Container Disposal:	Observe all local, state, and federal regulations for disposal of aerosol cans.						
XIV. TRANSPORT INFORMATION							
DOT:	ORM - D		UN No.:	1950			
Air Transport (ICAO/IATA):	Aerosols, Flammable, Class 2.1 UN 1950, ERG #126						
Sea Transport (IMO/IMDG):	Aerosols, Flammable, Class 2.1 UN 1950, ERG #126						
Road and Rail Transport (ADR/RID):	Aerosols, Flammable, Class 2.1 UN 1950, ERG #126						
XV. REGULATORY INFORMATION							
Labeling Information:	DOT - ORM - D		EC Annex 1 Classification:	N/D			
	All Others - "Flammable Gas"						
R Phrases:	R22 Harmful if swallowed; R12 Extremely flammable.						
S Phrases:	S-3 Keep in a cool place; S-2 Keep away from children; S-16 Keep away from ignition sources.						
Ozone Depleting Chemicals:	None		TSCA:	All Components are list.			
WHMIS (Canada):	Aerosols, Flammable, Class 2.1 UN 1950, ERG #126						
EPA Regulation 40 CFR Part 372 (SARA Section 313):	Ingredients in Section II with asterisks.						
XVI. OTHER INFORMATION							
None							