

MATERIAL SAFETY DATA SHEET

ULTRA MAX MOLY (ALL GRADES)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME	ULTRA MAX MOLY (ALL GRADES)
PRODUCT USE	Lubricating Grease
SUPPLIER	Allied Washoe 2500 E. 4 th St. Reno, NV 89512 Tel: (775) 323-3146 Fax: (775) 789-7900
EMERGENCY TELEPHONE	Infotrac U.S. and Canada - (800) 535-5053 Outside the U.S. and Canada - 001-352-323-3500

2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPOSITION COMMENTS

Refer to section eight for exposure limits on ingredients.
Chemical ingredients not regulated by OSHA or SARA are treated confidentially.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Exposure to vapors generated at high temperatures, may cause respiratory irritation.

ACUTE EFFECTS

\$\$\$

ACUTE EFFECTS

CHRONIC EFFECTS

\$\$\$\$

CHRONIC EFFECTS

SENSITIZATION	No known information.
CARCINOGENICITY	IARC: Not listed. OSHA: Not regulated. NTP: Not listed.
	HEALTH WARNINGS
	INHALATION. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product. SKIN CONTACT. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Irritating. INGESTION. Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
OTHER INFORMATION	\$\$\$\$
	OTHER INFORMATION
ROUTE OF ENTRY	Inhalation. Skin and/or eye contact. Ingestion.
MEDICAL SYMPTOMS	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not determined

4. FIRST AID MEASURES

INHALATION	Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor of hot product, immediately remove from source of exposure. Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. Get medical attention if any discomfort continues.
EYES	Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues.
SKIN	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
INGESTION	DO NOT INDUCE VOMITING! Get medical attention immediately!

5. FIRE FIGHTING MEASURES

FLASH POINT (°C)	> 149 Cd OC (Cleveland open cup).
FLAMMABILITY LIMIT - LOWER (%)	N/D
FLAMMABILITY LIMIT - UPPER (%)	N/D
EXTINGUISHING MEDIA	Use: Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Water spray, fog or mist.
SPECIAL FIRE FIGHTING PROCEDURES	Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Avoid

	water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.
UNUSUAL FIRE & EXPLOSION HAZARDS	Pressure will increase in over heated, closed containers.
HAZARDOUS COMBUSTION PRODUCTS	Acrid smoke/fumes. Oxides of: Carbon.
PROTECTIVE MEASURES IN CASE OF FIRE	Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Minimize skin contact.
PRECAUTIONS TO PROTECT THE ENVIRONMENT	Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.
SPILL CLEAN-UP PROCEDURES	Keep all sources of ignition and hot metal surfaces away from spill. Avoid contact with eyes or skin. Place leaking containers in well ventilated area. If fire potential exists, blanket spill with foam or use water spray to disperse vapors. Contain spill to minimize contaminated area and facilitate salvage or disposal. To clean up spill, flush area sparingly with water or use absorbant material. Avoid discharge to natural water ways.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS	Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Avoid spilling, skin and eye contact. Eye wash and emergency shower must be available at the work place.
STORAGE PRECAUTIONS	Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame.
STORAGE CRITERIA	Chemical storage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA
-----------	-----	-----	------	-----

DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED HEAVY NAPHTHENIC	OSHA 5 mg/m3	N/E
MOLYBDENUM SULFIDE (MoS2)	OSHA 10 mg/m3	N/E
RESIDUAL OILS, PETROLEUM. HYDROTREATED	OSHA 5 mg/m3	N/E
RESIDUAL OILS, PETROLEUM, SOLVENT DEASPHALTED	OSHA 5 mppcf	N/E mppcf

PROTECTIVE EQUIPMENT

ENGINEERING CONTROLS	Use engineering controls to reduce air contamination to permissible exposure level.
VENTILATION	No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.
RESPIRATORS	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
PROTECTIVE GLOVES	Chemical resistant gloves recommended to prevent prolonged or repeated contact.
EYE PROTECTION	Wear splash-proof eye goggles to prevent any possibility of eye contact.
PROTECTIVE CLOTHING	Wear appropriate clothing to prevent repeated or prolonged skin contact.
HYGIENIC WORK PRACTICES	Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE	Grease.		
COLOR	Grey.		
ODOR	Mild (or faint). Petroleum.		
SOLUBILITY DESCRIPTION	Insoluble in water.		
SOLUBILITY VALUE (g/100g H2O 20°C)	< 0.1		
DENSITY	0.90	Temperature (°C)	16
VAPOR DENSITY (air=1)	> 5		

Page 5 of 7

VAPOR PRESSURE	< 0.01 mmHg	Temperature (°C)	20
EVAPORATION RATE	< 1	Reference	BuAc=1
pH-VALUE, CONC. SOLUTION	N/A		

10. STABILITY AND REACTIVITY

STABILITY	Normally stable.
CONDITIONS TO AVOID	Avoid contact with acids and oxidizing substances.
HAZARDOUS POLYMERIZATION	Will not occur.
POLYMERIZATION DESCRIPTION	Not applicable
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of: Carbon.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	No experimental toxicological data on the preparation as such is available.
----------------------------------	---

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	There is no ecological data on the product itself.
-------------------------------	--

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.
-------------------------	---

14. TRANSPORT INFORMATION

DOT HAZARD CLASS	@@@Non-Hazardous (No label required).@@@
IDENTIFICATION No.	N/A
U.S. DOT HAZARD LABEL	No DOT label requirement noted
SEA TRANSPORT NOTES	Not regulated.
AIR TRANSPORT NOTES	Not regulated.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS									
COMPONENT		SARA 302		CERCLA		SAF 313			
DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED HEAVY NAPHTHENIC		N/A		N/A		N/A			
RESIDUAL OILS, PETROLEUM. HYDROTREATED		N/A		N/A		N/A			
RESIDUAL OILS, PETROLEUM, SOLVENT DEASPHALTED		N/A		N/A		N/A			
MOLYBDENUM SULFIDE (MoS2)		N/A		N/A		N/A			
REGULATORY STATUS	None. Product contains: Zinc compounds. Antimony compounds, < 1%								
	CLEAN AIR ACT								
CLEAN AIR ACT	§§§ US STATE REGULATIONS								
US STATE REGULATIONS	§§§§ WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHIMIS								
WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHIMIS	§§§§§								
	INVENTORIES								
INVENTORIES	§§§§§§								
COMPONENT		CAN	US	EU	AUS	JAP	KOR	CHN	
DISTILLATES, PETROLEUM, SEVERELY HYDROTREATED HEAVY NAPHTHENIC		DSL	Yes	EINECS	Yes	Yes	NAV	Yes	
RESIDUAL OILS, PETROLEUM. HYDROTREATED		DSL	Yes	EINECS	NAV	NAV	NAV	NAV	
RESIDUAL OILS, PETROLEUM, SOLVENT DEASPHALTED		DSL	Yes	EINECS	Yes	Yes	NAV	Yes	
MOLYBDENUM SULFIDE (MoS2)		DSL	Yes	NAV	NAV	NAV	NAV	NAV	

16. OTHER INFORMATION

HEALTH
FLAMMABILITY
REACTIVITY
PREPARED BY
DATE
DISCLAIMER

Irritation, minor residual injury (1)

Burns only if pre-heated (1).

N/A (0).

John Dingess

October 6, 2003

While the information and recommendations set forth herein are believed to be accurate as of the date thereof, Chemtool Incorporated makes no warranty with respect thereto and disclaims all liability from reliance therein.