



# MATERIAL SAFETY DATA SHEET

## WHITE LITHIUM MP (ALL GRADES)

### (MC 2011Q - MC 2012Q - MC 2019Q)

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

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<b>TRADE NAME</b>	WHITE LITHIUM MP (ALL GRADES - MC 2011Q - MC 2012Q - MC 2019Q)
<b>Product number</b>	320160, 320380, 329410
<b>SYNONYMS</b>	MC 2011Q, MC 2012Q, MC 2019Q, WHITE LITHIUM MP-1, WHITE LITHIUM MP-1.5, WHITE LITHIUM MP-2
<b>PRODUCT USE</b>	Lubricating Grease
<b>SUPPLIER</b>	Metalcote Division of Chemtool Inc. 8200 Ridgefield Road P.O. Box 538 Crystal Lake, IL 60039-0538 USA Tel: (815) 459-1250 Fax: (815) 459-1955
<b>EMERGENCY TELEPHONE</b>	INFOTRAC U.S. and Canada - (800) 535-5053 Outside the U.S. and Canada - +01-352-323-3500
<b>Date of last issue</b>	2007-05-03

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#### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

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<b>INGREDIENT NAME</b>	<b>CAS No.</b>	<b>WEIGHT</b>
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	64742-52-5	70-90 %
ZINC OXIDE (ZnO)	1314-13-2	5-10 %
CASTOR OIL, HYDROGENATED, LITHIUM SALT	64754-95-6	3-10 %

<b>COMPOSITION COMMENTS</b>	Refer to section eight for exposure limits on ingredients. Chemical ingredients not regulated by OSHA, SARA, state or federal agencies are treated confidentially.
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#### 3. HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW

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	Not regarded as a health hazard under current legislation. Exposure to vapors generated at high temperatures may cause respiratory irritation.
<b>SENSITIZATION</b>	No known information.
<b>CARCINOGENICITY</b>	IARC: Not listed as a Group 1, 2A, or 2B agent. OSHA: Not regulated. NTP: Not listed.
<b>TERATOGENICITY</b>	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.
<b>HEALTH WARNINGS</b>	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.
<b>ROUTE OF ENTRY</b>	Inhalation. Skin and/or eye contact. Ingestion.
<b>MEDICAL SYMPTOMS</b>	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not determined

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#### 4. FIRST AID MEASURES

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<b>INHALATION</b>	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.
<b>EYES</b>	Rinse the eye with water immediately. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues.
<b>SKIN</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>INGESTION</b>	DO NOT INDUCE VOMITING! Get medical attention immediately!

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#### 5. FIRE FIGHTING MEASURES

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<b>FLASH POINT (°C)</b>	224 (435°F) Flash point of lowest oil. Cd OC (Cleveland open cup).
<b>FLAMMABILITY LIMIT - LOWER(%)</b>	N/D
<b>FLAMMABILITY LIMIT - UPPER(%)</b>	N/D
<b>EXTINGUISHING MEDIA</b>	Use: Carbon dioxide (CO <sub>2</sub> ). Dry chemicals, sand, dolomite etc. Alcohol resistant foam. Water spray, fog or mist.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	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.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</b>	Pressure will increase in over heated, closed containers.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Oxides of: Carbon.

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**PROTECTIVE MEASURES IN CASE OF FIRE** Self-contained breathing equipment and chemical resistant clothing recommended.

## 6. ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PRECAUTIONS</b>	Minimize skin contact.
<b>PRECAUTIONS TO PROTECT THE ENVIRONMENT</b>	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.
<b>SPILL CLEAN-UP PROCEDURES</b>	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

<b>HANDLING PRECAUTIONS</b>	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.
<b>STORAGE PRECAUTIONS</b>	Store separate from strong acids and oxidizers. Keep away from heat, sparks and open flame.
<b>STORAGE CRITERIA</b>	Chemical storage.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	OSHA			5 mg/m3 (oil mist)	
ZINC OXIDE (ZnO)	ACGIH			5 mg/m3 (oil mist)	10 mg/m3 (oil mist)
	OSHA	15 mg/m3 (total)		5 mg/m3 (resp)	
	ACGIH			2 mg/m3 (resp)	10 mg/m3 (resp)

### PROTECTIVE EQUIPMENT



**ENGINEERING CONTROLS** Use engineering controls to reduce air contamination to permissible exposure level.

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE/PHYSICAL STATE</b>	Grease.		
<b>COLOR</b>	White.		
<b>ODOR</b>	Mild (or faint). Petroleum.		
<b>SOLUBILITY DESCRIPTION</b>	Insoluble in water.		
<b>SOLUBILITY VALUE (g/100g H<sub>2</sub>O 20°C)</b>	<0.1		
<b>DENSITY</b>	0.90	<b>Temperature (°C)</b>	15.6 (60°F)
<b>VAPOR DENSITY (air=1)</b>	> 5		
<b>VAPOR PRESSURE</b>	< 0.1 mmHg	<b>Temperature (°C)</b>	20 (68°F)
<b>EVAPORATION RATE</b>	< 0.01	<b>Reference</b>	BuAc=1

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## 10. STABILITY AND REACTIVITY

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

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## 11. TOXICOLOGICAL INFORMATION

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<b>TOXICOLOGICAL INFORMATION</b>	Petroleum products may affect the skin and eyes. Petroleum mists or vapors may affect the lungs. No experimental toxicological data is available on the product as a whole.
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<b>COMPONENT</b>	<b>DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC</b>
<b>TOXICOLOGICAL DATA</b>	Carcinogenicity. IP 346 <3%
<b>TOXIC DOSE - LD 50</b>	> 5000 mg/kg (oral rat)
<b>TOXIC DOSE - LD 50 SKIN</b>	> 2000 mg/kg (skn rbt)
<b>TOXIC CONC. - LC 50</b>	No Information Available (NIA).
<b>CARCINOGENICITY</b>	The petroleum base oil contained in this product has been highly refined to remove aromatics and improve performance characteristics. The base oil is not listed as a carcinogen by NTP, IARC, or OSHA.

<b>COMPONENT</b>	<b>ZINC OXIDE (ZnO)</b>
<b>TOXIC DOSE - LD 50</b>	240 mg/kg (ipr-rat)
<b>TOXIC DOSE - LD 50</b>	7950 mg/kg (oral-mus)
<b>TOXIC CONC. - LC 50</b>	2500 mg/m3 (inh-mam.)
<b>CARCINOGENICITY</b>	OSHA: Not regulated. NTP: Not listed. IARC: Not listed as a Group 1, 2A, or 2B agent. EPA-D designation: Not classifiable as to human carcinogenicity.

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## 12. ECOLOGICAL INFORMATION

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

<b>COMPONENT</b>	<b>ZINC OXIDE (ZnO)</b>
<b>ECOTOXICOLOGICAL DATA</b>	WGK 2
<b>ECOLOGICAL INFORMATION</b>	Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

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## 13. DISPOSAL CONSIDERATIONS

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

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## 14. TRANSPORT INFORMATION

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<b>DOT HAZARD CLASS</b>	Not regulated.
<b>TDGR CLASS</b>	Not Regulated.
<b>SEA TRANSPORT NOTES</b>	Not regulated per IMDG.
<b>AIR TRANSPORT NOTES</b>	Not regulated per IATA.

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## 15. REGULATORY INFORMATION

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**US FEDERAL REGULATIONS**

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COMPONENT	SARA 302	CERCLA	SARA 313
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	No	No	No
ZINC OXIDE (ZnO)	No	***	N982 - Zn
CASTOR OIL, HYDROGENATED, LITHIUM SALT	No	No	No

**REGULATORY STATUS**

\*\*\* Indicates that no RQ is assigned to this generic or broad class, although the class is a CERCLA hazardous substance. See 50 Federal Register 13456 (April 4, 1985). Values in Section 313 column represent Category Codes for reporting under Section 313.

**CLEAN AIR ACT**

**SARA HAZARD CATEGORIES** None

**US STATE REGULATIONS**

COMPONENT	CA	MA	FL	MN	NJ	PA	RI
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC					Yes	Yes	
ZINC OXIDE (ZnO)					Yes	EH	

**STATE REGULATORY STATUS**

CALIFORNIA PROPOSITION 65: This product may contain the following chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required:

Lead and lead compounds, cancer hazard, No CAS# <5 ppm

Cadmium and cadmium compounds, cancer hazard, No CAS# <1 ppm

PENNSYLVANIA RIGHT-TO-KNOW: This product contains the following chemicals that the state of Pennsylvania has identified as Special Hazardous Substances (SHS), Environmental Hazards (EH), or both (ESHS). The PA regulations require that the MSDS identify all SHS or EH chemicals by chemical name, common name, and CAS Number if they comprise 0.01% or more.

Zinc compounds regulated under CERCLA and SARA 313, Environmental Hazard Propionic acid, Environmental Hazard, CAS# 79-09-4 <0.2%

**WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**CONTROLLED PRODUCT CLASSIFICATION**

Not a controlled product.

**GLOBAL INVENTORIES**

COMPONENT	CAN	US	EU	AUS	JAP	KOR	PHLP	CHN
DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC	DSL	Yes	EINECS	Yes	Yes	Yes	Yes	Yes
CASTOR OIL, HYDROGENATED, LITHIUM SALT	DSL	Yes	EINECS	Yes	Salt	Yes		Yes
ZINC OXIDE (ZnO)	NPRI	Yes	EINECS	Yes	Yes	Yes	Yes	Yes

CANADA CEPA: All components of this product comply with new substance notification requirements under the Canadian Environmental Protection Act (CEPA).

## 16. OTHER INFORMATION

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### NFPA-HMIS HAZARD RATING

<b>HEALTH</b>	Irritation, minor residual injury (1) - HMIS/NFPA
<b>FLAMMABILITY</b>	Burns only if pre-heated (1) - HMIS/NFPA
<b>REACTIVITY</b>	Normally Stable (0) - HMIS/NFPA
<b>PERSONAL PROTECTION INDEX</b>	B - Safety Eyewear and Gloves
<b>REVISION COMMENTS</b>	Section 1: Name Change Section 2: Ingredients Section 11: Toxicological Information Section 15: WHMIS
<b>PREPARED BY</b>	Heather Holich James W. Hermann
<b>Replacement of MSDS generated</b>	2005-02-14
<b>DATE</b>	2007-05-03
<b>DISCLAIMER</b>	While the information and recommendations set forth herein are believed to be accurate as of the date thereof, the company makes no warranty with respect thereto and disclaims all liability from reliance therein.
<b>* Information revised since previous MSDS version</b>	
<b>PRINTING DATE:</b>	2007-05-03