

MATERIAL SAFETY DATA SHEET

OMCO-H1-M

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME	OMCO-H1-M
PRODUCT USE	Food Grade Lubricating Grease
MANUFACTURER	Chemtool Incorporated P.O. Box 538 8200 Ridgefield Road Crystal Lake, IL 60039-0538 USA Tel: (815) 459-1250 Fax: (815) 459-1955
SUPPLIER	Oconomowoc Manufacturing Corp. 425 South Lapham Street P.O. Box 426 Oconomowoc, WI 53066 Tel: (262) 567-8383 Fax: (262) 567-0389
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

INGREDIENT NAME	CAS No.	WEIGHT
WHITE MINERAL OIL, PETROLEUM	8042-47-5	50-70 %
*ZINC OXIDE (ZnO)	1314-13-2	5-10 %

* This chemical(s) is hazardous according to OSHA/WHIMIS criteria

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

For further information, please refer to section 11.

ACUTE EFFECTS

CHRONIC EFFECTS

SENSITIZATION

No known information.

CARCINOGENICITY	Product contains: EPA-D listed substance(s): Zinc oxide, CAS # 1314-13-2, 5 - 10%. EPA-D designation: Not classifiable as to human carcinogenicity.
TERATOGENICITY	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

HEALTH WARNINGS

SKIN CONTACT. Slightly irritating. Repeated or prolonged contact can result in drying of the skin. EYE CONTACT. Irritating. 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. INGESTION. Can cause discomfort.

OTHER INFORMATION

ROUTE OF ENTRY	Inhalation. Skin and/or eye contact. Ingestion.
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4. FIRST AID MEASURES

INHALATION	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 with water. 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)	> 177Flash point of lowest oil. Cd OC (Cleveland open cup).
FLAMMABILITY LIMIT - LOWER(%)	N/D
FLAMMABILITY LIMIT - UPPER(%)	N/D
FLAMMABILITY CLASS	No Uniform Fire Code noted.
EXTINGUISHING MEDIA	Use: Foam. Carbon dioxide (CO2). Dry chemicals, sand, dolomite etc.
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.
UNUSUAL FIRE & EXPLOSION HAZARDS	Volume and pressure increases strongly when heated. Risk of container explosion in fire.
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	Non-hazardous substance. Collect in closed container.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS	Keep away from heat, sparks and open flame. Eye wash station should be available at the work place.
STORAGE PRECAUTIONS	Keep away from heat, sparks and open flame. Store separated from: Acids. Oxidizing materials.
STORAGE CRITERIA	Chemical storage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

COMPONENT	STD	TWA	STEL	TWA	STEL
ZINC OXIDE (ZnO)	OSHA			10 mg/m ³	
	ACGIH			10 mg/m ³	
WHITE MINERAL OIL, PETROLEUM	OSHA			5 mg/m ³ ^{**} (1)	
	ACGIH			5 mg/m ³ ^{**} (1)	10 mg/m ³ ^{**} (1)

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 required for prolonged or repeated contact. Use protective gloves made of: latex.
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	Light (or pale). White.		
ODOR	Mild (or faint).		
SOLUBILITY DESCRIPTION	Insoluble in water.		
DENSITY	~ 0.89	Temperature (°C)	16
VAPOR DENSITY (air=1)	> 0.5		
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 polymerize.
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	No data on possible environmental effects have been found.
BIOACCUMULATION	Not determined.
BIODEGRADABILITY	Not determined.
ACUTE AQUATIC TOXICITY	Not determined.

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

CLASSIFICATION COMMENT Not regulated by USA DOT.

IDENTIFICATION No. N/A

U.S. DOT HAZARD LABEL No DOT label requirement

SEA TRANSPORT NOTES Not regulated.

AIR TRANSPORT NOTES Not regulated.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

COMPONENT	SARA 302	CERCLA	SARA 313
ZINC OXIDE (ZnO)	No	***	N982
WHITE MINERAL OIL, PETROLEUM	No	No	No

REGULATORY STATUS

Zinc compounds.

CLEAN AIR ACT

US STATE REGULATIONS

COMPONENT	CAS No	CA	FL	MA	MN	NJ	PA	RI
ZINC OXIDE (ZnO)						Yes	Yes	

STATE REGULATORY STATUS

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:
Cadmium, <1ppm
Lead, <1ppm

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
ZINC OXIDE (ZnO)	DSL	Yes	EINECS					
WHITE MINERAL OIL, PETROLEUM	DSL	Yes						

16. OTHER INFORMATION

HEALTH	Irritation, minor residual injury (1) - HMIS/NFPA
FLAMMABILITY	Burns only if pre-heated (1) - HMIS/NFPA
REACTIVITY	Normally Stable (0) - HMIS/NFPA
PREPARED BY	John Dingess
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DISCLAIMER	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.