



## MATERIAL SAFETY DATA SHEET

### Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHS Inc.  
P.O. Box 64089  
Mail station 525  
St. Paul, MN 55164-0089

Transportation Emergency (CHEMTREC): 1-800-424-9300  
Technical Information: 1-651-355-8443  
MSDS Information: 1-651-355-8438

PRODUCT NAME: MOLY GARD 500 + WITH GRAPHITE

MSDS: 0166-L57A00 – Rev. C (12/23/03)

COMMON NAME: Grease, Multi Purpose

CHEMICAL FORMULA: Mixture

CHEMICAL NAME: Soap-Thickened Oil Lubricant

CHEMICAL FAMILY: Hydrocarbon

### Section 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENTS	PERCENTAGES (by weight)	PEL (OSHA)	TLV (ACGIH)	CAS #
Oil, Solvent Neutral	75-85%	N/D ppm TWA ppm STEL	5 mg/m <sup>3</sup> TWA (oil mist) N/D ppm STEL	64742-65-0
Performance Additive	Proprietary	N/D ppm TWA	10 mg/m <sup>3</sup> TWA (Organic + Inorganic Molybdenum)	

(TWA) - Time Weighted Average is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.

(STEL) - Short Term Exposure Limit is the employee's 15-minute time weighted average exposure which shall not be exceeded at any time during a work day unless another time limit is specified.

### Section 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

#### POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY: Eye Contact, Dermal, Inhalation, Ingestion.

#### ACUTE EFFECTS OF OVER EXPOSURE:

**Eyes** - May cause irritation.

**Skin** - May cause irritation.

**Inhalation** - May cause central nervous system depression.

**Ingestion** - May cause central nervous system depression.

CHRONIC EFFECTS OF OVER EXPOSURE: None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Impairment of pulmonary function.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

## Section 4 - FIRST AID MEASURES

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### EMERGENCY AND FIRST AID PROCEDURES:

**Eye Contact** - If material comes in contact with the eyes, immediately wash the eyes with large amounts of water and continue flushing for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention.

**Skin Contact** - If material comes in contact with the skin, flush the contaminated skin with soap and water promptly. If material penetrates through clothing, immediately remove the clothing and flush the skin with water promptly. If irritation persists after washing, get medical attention.

**Inhalation** - If a person breathes in large amounts of this material, move the exposed person to fresh air at once. Other measures are usually unnecessary.

**Ingestion** - If material has been swallowed and the person is conscious, immediately give the person large quantities of water to dilute the material. After the water has been swallowed, try to get the person to vomit by having the person touch the back of the throat with a finger. Do not make an unconscious person vomit. Get medical attention immediately.

## Section 5 - FIRE - FIGHTING MEASURES

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**FLASH POINT:** >300°F

**AUTO IGNITION TEMP:** N/D

<b>FLAMMABLE LIMITS IN AIR</b>		<b><u>LOWER</u></b>	<b><u>UPPER</u></b>
% BY VOLUME	N/D	N/D	N/D

**EXTINGUISHING MEDIA:** Dry Chemical, Carbon Dioxide (CO<sub>2</sub>), Foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Cool containers with water spray; avoid breathing vapors; use of self-contained breathing apparatus may be necessary.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known.

**HAZARD RATINGS:** NFPA 704: Health 1 Fire 1 Reactivity 0

## Section 6 - ACCIDENTAL RELEASE MEASURES

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**STEPS TO TAKE IF MATERIAL IS RELEASED OR SPILLED:** Soak up with absorbent, surface may be slippery, treat with earth or clean floor with mild solvent and dry.

## Section 7 - HANDLING AND STORAGE

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**HANDLING AND STORING:** Keep containers closed when not in use. Keep away from ignition.

## Section 8 - EXPOSURE CONTROL - PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** Mechanical ventilation recommended to keep vapors below TLVs.

**RESPIRATORY EQUIPMENT:** Normally not required, when needed use only an approved NIOSH respirator.

**EYE PROTECTION:** Chemical safety goggles and/or face shield.

**PROTECTIVE CLOTHING:** Impervious gloves and apron recommended to minimize exposure.

**OTHER (SAFETY SHOWERS, EYE WASH STATIONS, ETC.):** Water should be available when flushing and washing are required.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Black color, smooth, tacky texture.

**ODOR:** Petroleum odor

**BOILING POINT:** >500°F

**SPECIFIC GRAVITY (water=1):** .88 - .92

**VAPOR PRESSURE:** <1 mmHg @ 68°F

**VAPOR DENSITY (air=1):** N/D

**SOLUBLE IN WATER:** Soluble

**EVAPORATION RATE (ether=1):** <1.0

**pH:**

## Section 10 - STABILITY AND REACTIVITY

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**STABILITY:**

STABLE  X

UNSTABLE  \_\_\_

**INCOMPATIBILITY:**

**CONDITIONS TO AVOID:** Heat, flames, other ignition sources.

**MATERIALS TO AVOID:** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide and other petroleum decomposition products.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## Section 11 - TOXICOLOGY INFORMATION

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**Note:** CHS has not conducted specific toxicity tests on this product.

## Section 12 - ECOLOGICAL INFORMATION

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**Note:** CHS has not conducted specific ecological tests on this product.

## Section 13 - DISPOSAL CONSIDERATION

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**WASTE DISPOSAL PROCEDURES:** Dispose of at an approved landfill in accordance with federal, state and local regulations.

## Section 14 - TRANSPORTATION

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**DOT PROPER SHIPPING NAME:** Not Regulated by DOT

**DOT HAZARD CLASS:** N/A

**DOT IDENTIFICATION NUMBER:** N/A

**DOT EMER. RESPONSE GUIDE NO.:** N/A

## Section 15 - REGULATORY INFORMATION

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This product does not contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372

**SARA SECTION 311-312 HAZARD CATEGORIES (40 CFR 370.2):**

**FIRE:**  No

**SUDDEN RELEASE OF PRESSURE:**  No

**REACTIVE:**  No

**ACUTE:**  No

**CHRONIC:**  No

## Section 16 - OTHER INFORMATION

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Prepared by: John M. Burgess

DATE: December 23, 2003

Updated by: Hue Lam

Supersedes: October 25, 2001

Reason for Issue: Company Name Change

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THE INFORMATION CONTAINED IN THIS MSDS RELATES ONLY TO THE SPECIFIC MATERIAL IDENTIFIED. IT DOES NOT COVER USE OF THAT MATERIAL IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PARTICULAR PROCESS. IN COMPLIANCE WITH 29 C.F.R. 1910.1200(g), CHS HAS PREPARED THIS MSDS IN SEGMENTS, WITH THE INTENT THAT THOSE SEGMENTS BE READ TOGETHER AS A WHOLE WITHOUT TEXTUAL OMISSIONS OR ALTERATIONS. CHS BELIEVES THE INFORMATION CONTAINED HEREIN TO BE ACCURATE, BUT MAKES NO REPRESENTATION, GUARANTEE, OR WARRANTY, EXPRESS OR IMPLIED, ABOUT THE ACCURACY, RELIABILITY, OR COMPLETENESS OF THE INFORMATION OR ABOUT THE FITNESS OF CONTENTS HEREIN FOR EITHER GENERAL OR PARTICULAR PURPOSES. PERSONS REVIEWING THIS MSDS SHOULD MAKE THEIR OWN DETERMINATION AS TO THE MATERIAL'S SUITABILITY AND COMPLETENESS FOR USE IN THEIR PARTICULAR APPLICATIONS.



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