

# MATERIAL SAFETY DATA SHEET

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Moly Gear and Chain Lube  
Part No. S1048CT Aerosol  
Revision 3 • June 9, 2004

Sosmetal No. 13129

## EMERGENCY OVERVIEW

CONTENTS EXTREMELY FLAMMABLE AND UNDER PRESSURE. STORE BELOW 120°F, OUT OF SUNLIGHT, AND AWAY FROM HEAT SOURCES. DO NOT PUNCTURE OR INCINERATE. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

## SECTION 1 • CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURER:** Sosmetal Products  
2945 East Tioga Street  
Philadelphia PA 19134

**INFORMATION:** 215-739-6200  
**EMERGENCY:** 800-255-3924 (24 hr) Chem-Tel

**PRODUCT NUMBER:** S1048CT  
**PRODUCT DESCRIPTION:** Moly Gear and Chain Lube

**PRODUCT TYPE:** Aerosol  
**CAS NUMBER:** Mixture

**SUPPLIER 24hr:**

**SUPPLIER NUMBER:** 13129

**REVISION NUMBER:** 3  
**REVISION DATE:** June 9, 2004  
**PRINT DATE:** June 9, 2004

## SECTION 2 • HAZARDOUS COMPOSITION

INGREDIENT	CAS NUMBER	OSHA PEL	NIOSH PEL	ACGIH PEL	IDLH	% WT
Liquefied Petroleum Gas	068476-85-7	1000 ppm	1000 ppm	1000 ppm	2000 ppm	20-30
Heavy Paraffinic Distillate Solvent Extract	064742-04-7	N/E	N/E	N/E	N/E	
Heptane	000142-82-5	500 ppm	85 ppm	400 ppm	750 ppm	10-20
Base Lubricating Oil	Trade Secret	N/E	N/E	N/E	N/E	
Sulfurized Animal Fats	068990-81-8	N/E	N/E	N/E	N/E	
Sodium Sulfonate	068608-26-4	N/E	N/E	N/E	N/E	
Molybdenum Disulfide	001317-33-5	N/E	N/E	N/E	N/E	
Polyisobutylene	009003-27-4	N/E	N/E	N/E	N/E	
Quaternary Ammonium Compound	068911-87-5	N/E	N/E	N/E	N/E	

## SECTION 3 • HAZARD IDENTIFICATION

### SIGNS AND SYMPTOMS OF ACUTE EXPOSURE

**EYE:** Liquid contact may cause pain along with moderate eye irritation which may be slow to heal. May cause slight corneal injury. Vapors may cause irritation.

**SKIN:** Prolonged or repeated exposure may cause skin irritation. Repeated contact may cause drying or flaking of skin. May cause more severe response if confined to skin. Extensive skin contact may cause an intense burning sensation followed by a cold, numb feeling which will subside after contact.

**INGESTION:** Due to being an aerosol, the product does not lend itself to ingestion. Should ingestion occur, it may cause irritation to membranes of the mouth, throat, and gastrointestinal tract resulting in vomiting and/or cramps. Aspiration of vomit into the lungs may cause inflammation, and possible chemical pneumonitis, bronchopneumonia, or pulmonary edema.

**INHALATION:** Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion or death. Irritation of the mucous membranes, coughing, and dyspnea are also possible.

### OTHER HEALTH HAZARD DATA

**CHRONIC EFFECTS:** N/D

**MEDICAL CONDITIONS AGGRAVATED:** May aggravate individuals with pre-existing skin disorders.

**PRIMARY HAZARDS:** N/D

**CARCINOGEN DATA:** This product contains no ingredients listed as being carcinogenic.

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## OSHA HAZARD CLASSIFICATIONS

HEALTH HAZARD CLASSIFICATION				PHYSICAL HAZARD CLASSIFICATION					
Irritant	<input type="checkbox"/>	Sensitizer	<input type="checkbox"/>	Combustible	<input type="checkbox"/>	Explosive	<input type="checkbox"/>	Pyrophoric	<input type="checkbox"/>
Toxic	<input type="checkbox"/>	Highly Toxic	<input type="checkbox"/>	Flammable	<input checked="" type="checkbox"/>	Oxidizer	<input type="checkbox"/>	Water Reactive	<input type="checkbox"/>
Corrosive	<input type="checkbox"/>	Carcinogenic	<input type="checkbox"/>	Compressed Gas	<input checked="" type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>	Unstable	<input type="checkbox"/>

## SECTION 4 • FIRST AID MEASURES

**INGESTION:** Do not induce vomiting! Immediately have the victim drink plenty of water. Do not give milk or digestible oils. Keep airways free. Contact a physician. Never give anything by mouth to an unconscious person.

**SKIN:** Remove with soap and water. Consult a physician if irritation continues. If large skin area is affected, remove contaminated clothing.

**EYE:** Immediately flush with plenty of clear water for at least 15 minutes. Make sure to flush under the eyelids. Consult a physician.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.

**NOTES TO PHYSICIAN:** After ingestion of large amount, gastric lavage may be a consideration. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias (irregular beating) in persons exposed to high concentrations of n-Hexane. If used, monitor heart activity closely.

## SECTION 5 • FIRE FIGHTING MEASURES

**FLASH POINT:** Propellant < 0°F

**FLAMMABLE LIMITS:** Lower (LEL): 1.8% @ 25°C Upper (UEL): 9.5% @ 25°C

**MEANS OF EXTINCTION:** Water, CO<sub>2</sub>, dry chemical, or universal aqueous film forming foam.

**AUTOIGNITION TEMPERATURE:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool fire exposed aerosol containers, as contents can rupture violently from heat developed pressure. Firemen should wear self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents extremely flammable and under pressure. In addition, when liquid or vapor comes into contact with flames or red hot metal, products of combustion may be created.

## SECTION 6 • ACCIDENTAL RELEASE MEASURES

**CONTAINMENT PROCEDURES:** Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content should be contained as any other solvent spill.

**SPILL CLEANUP:** Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.

**SPECIAL INSTRUCTIONS:** Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilate provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal.

**REPORTING REQUIREMENTS:** Spills due to the rupture of a single aerosol can are generally below any regulatory reporting requirements. However, if larger spills somehow result, the reporting requirements of all governing agencies should be observed.

## SECTION 7 • HANDLING AND STORAGE

**HANDLING:** Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use.

**STORAGE:** Storage of individual cans should be done in an area below 120°F, and away from heat sources. Assure can is in a secure place to prevent knocking over and accidental rupture. For storage of pallet quantities, compliance with NFPA 30B (Manufacture and Storage of Aerosol Products) is recommended. This product is classified as a Level 1 Aerosol.

## SECTION 8 • EXPOSURE CONTROL/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest PEL rated ingredient from Section 2.

**SKIN PROTECTION:** For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing impervious to the ingredients listed in Section 2.

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**EYE PROTECTION:** Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact with this material could occur, chemical splash proof goggles are recommended.

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, an appropriate NIOSH approved respirator for organic vapor should be worn. If respirators are needed, compliance with OSHA standard 29 CFR 1910.134 is necessary within the United States.

## SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:	N/D	MELTING/FREEZING POINT:	N/D
SPECIFIC GRAVITY (H <sub>2</sub> O=1):	0.68 g/cc	COEFF. OF WATER/OIL DIST.:	N/D
VAPOR PRESSURE:	70 psig	pH:	N/D
VAPOR DENSITY:	N/D	EVAPORATION RATE:	Rapid
PHYSICAL STATE:	Liquid Under Pressure	WATER SOLUBILITY:	N/D
PERCENT VOLATILE:	49 % Wt Max	VOLATILITY:	2.39 lbs/gal
VISCOSITY:	N/D	ODOR THRESHOLD:	N/D
APPEARANCE:	Black coating	ODOR:	Oily / Musty Smell

## SECTION 10 • STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Heat, sparks, flame, red hot metal

**MATERIAL INCOMPATIBILITY:** Strong oxidizing materials

**DECOMPOSITION PRODUCTS:** Oxides of carbon

**HAZARD POLYMERIZATION:** Not expected to occur.

## SECTION 11 • TOXICOLOGICAL INFORMATION

### ROUTES OF ENTRY:

Skin Contact	<input type="checkbox"/>	Skin Absorption	<input type="checkbox"/>	Eye Contact	<input type="checkbox"/>	Inhalation	<input type="checkbox"/>	Ingestion	<input type="checkbox"/>
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### LD50 AND LC50 VALUES:

INGREDIENT	ORAL LD50	DERMAL LD50	INHALATION LC50
Liquefied Petroleum Gas	N/Av	N/Av	57.42% v/v, mice
Heavy Paraffinic Distillate Solvent Extract	N/Av	N/Av	N/Av
Heptane	>15 g/kg, rat	N/Av	103 g/m <sup>3</sup> /4hr, rat
Base Lubricating Oil	N/Av	N/Av	N/Av
Sulfurized Animal Fats	N/Av	N/Av	N/Av
Sodium Sulfonate	>6000 mg/kg, rat	N/Av	N/Av
Molybdenum Disulfide	>2000 mg/kg, rat	>2000 mg/kg, rabbit	N/Av
Polyisobutylene	>5000 mg/kg, rat	>2000 mg/kg, rabbit	N/Av
Quaternary Ammonium Compound	N/Av	N/Av	N/Av

## SECTION 12 • ECOLOGICAL INFORMATION

**OTHER ECOLOGIC DATA:** Do not allow to enter waters, waste water, or soil. No ecological problems are to be expected when handled and used with care and as directed.

**EFFECT ON THE OZONE LAYER:** This product does not contain any ozone depleting ingredients.

### AQUATIC TOXICITY:

INGREDIENT	FISH LC50	DAPHNIA EC50	ALGAL IC50	BACTERIAL EC50
Liquefied Petroleum Gas	N/Av	N/Av	N/Av	N/Av
Heavy Paraffinic Distillate Solvent Extract	N/Av	N/Av	N/Av	N/Av
Heptane	4 mg/l /24 hr	1.5 mg/l /48 hr	N/Av	N/Av
Base Lubricating Oil	N/Av	N/Av	N/Av	N/Av
Sulfurized Animal Fats	N/Av	N/Av	N/Av	N/Av
Sodium Sulfonate	N/Av	N/Av	N/Av	N/Av
Molybdenum Disulfide	N/Av	N/Av	N/Av	N/Av
Polyisobutylene	>1000 mg/l /96 hr	>1000 mg/l /48hr	>1000 ppm	N/Av
Quaternary Ammonium Compound	N/Av	N/Av	N/Av	N/Av

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## SECTION 13 • DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use and location. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste material must be disposed of in compliance with the respective national, federal, state, and/or local regulations.

In the United States, an aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations.

## SECTION 14 • TRANSPORTATION INFORMATION

### DOT SHIPPING INFORMATION (United States)

PROPER SHIPPING NAME: Consumer Commodity  
HAZARD CLASS: ORM-D  
PACKAGING GROUP: -  
UN or ID NUMBER: none

### NMFC DESCRIPTION (United States)

ARTICLE: Compounds, Lubricating  
ITEM NO.: 50303  
CLASS: 55

## SECTION 15 • REGULATORY INFORMATION

### UNITED STATES - FEDERAL:

INGREDIENT	CAS NO	TSCA	RCRA	CERCLA	SARA 313	CAA	CWA
Liquefied Petroleum Gas	068476-85-7	• •	-	-	-	-	-
Heavy Paraffinic Distillate Solvent Extract	064742-04-7	• •	-	-	-	-	-
Heptane	000142-82-5	• •	-	-	-	-	-
Base Lubricating Oil	Trade Secret	• •	-	-	-	-	-
Sulfurized Animal Fats	068990-81-8	• •	-	-	-	-	-
Sodium Sulfonate	068608-26-4	• •	-	-	-	-	-
Molybdenum Disulfide	001317-33-5	• •	-	-	-	-	-
Polyisobutylene	009003-27-4	• •	-	-	-	-	-
Quaternary Ammonium Compound	068911-87-5	• •	-	-	-	-	-

### UNITED STATES - STATES:

INGREDIENT	CA	DE	FL	MA	PA	MN	NJ	NY	WA
Liquefied Petroleum Gas	-	-	-	-	-	-	-	-	-
Heavy Paraffinic Distillate Solvent Extract	-	-	-	-	-	-	-	-	-
Heptane	-	-	-	-	-	-	-	-	-
Base Lubricating Oil	-	-	• •	2,4,5,6	-	ANO	-	-	• •
Sulfurized Animal Fats	-	-	-	-	-	-	-	-	-
Sodium Sulfonate	-	-	-	-	-	-	-	-	-
Molybdenum Disulfide	-	-	-	2	-	-	-	-	-
Polyisobutylene	-	-	-	-	-	-	-	-	-
Quaternary Ammonium Compound	-	-	-	-	-	-	-	-	-

### CANADA / EUROPEAN UNION:

Please contact Sosmetal if you need Canadian WHMIS and/or European SNAP compliant information and we will supply you with the appropriate addendum to this MSDS. Submit requests via email to [msds@sosmetal.com](mailto:msds@sosmetal.com), or via fax at 215-423-4123.

## SECTION 16 • OTHER INFORMATION

HMIS RATING: Health: 2 – Flammability: 4 – Reactivity: 0 – Personal Protection: B  
NFPA RATING: Health: 2 – Flammability: 4 – Reactivity: 0 – Special: -

### DISCLAIMER OF LIABILITY:

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