

SECTION 1 - IDENTIFICATION

Product Identifier

Product Number(s) 13129
Product Name Moly Gear and Chain Lube

Other Means of Identification None

Recommended Use and Restrictions on Use

Recommended Use Open gear lubricant with molybdenum disulfide.
Restrictions on Use None Identified

24 hr Emergency
Phone Number

800-255-3924
(Chem-Tel)

MANUFACTURER DETAILS		SUPPLIER DETAILS	
Name		Name	Sosmetal Products Inc.
Address		Address	2945 East Tioga Street Philadelphia PA 19134
Phone Number		Phone Number	215-739-6200
Fax Number		Fax Number	215-423-1443

SECTION 2 - IDENTIFICATION

Hazard Classification

HEALTH HAZARDS				PHYSICAL HAZARDS			
Acute Tox. Oral		Mutagenicity		Unstable Explosive		Refrigerated Liq. Gas	Pyrophoric Solid
Acute Tox. Skin		Carcinogenicity		Explosive		Flammable Liquid	Emits Flammable Gas
Acute Tox. Inhalation		Tox. to Reproduction		Flammable Gas		Flammable Solid	Oxidizing Liquid
Skin Irritation	2	STOT SE		Aerosol	1	Self-Reactive Sub.	Oxidizing Solid
Eye Irritation		STOT RE		Oxidizing Gas		Pyrophoric Liquid	Organic Peroxide
Resp. Sensitization		Aspiration Hazard	1	Gas Under Pressure	X	Self-Heating Substance	Corrosive to Metal
Skin Sensitization				ENVIRONMENTAL HAZARDS (GHS Rev 3 Only)			
				Aquatic Acute	1	Aquatic Chronic	1
						Ozone Depleting	

Signal Word

Danger

Hazard Pictograms



Hazard Statements

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. Very toxic to aquatic life with long lasting effects.

Precautionary Statements

General Keep out of reach of children.

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

Moly Gear and Chain Lube

Storage	Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122° F.
Disposal	Dispose of contents/container in accordance with local regulations.
Hazards Not Otherwise Classified	None identified.
Unknown Acute Toxicity	35 % by wt

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

ID	INGREDIENT	CAS NUMBER	% WT RANGE*
1	Liquefied Petroleum Gas	0068476-86-8	15 - 40
2	Extracts (Petroleum), Heavy Paraffinic Distillate Solvent	0064742-04-7	15 - 40
3	N-Heptane	0000142-82-5	10 - 30
4	Process Oil	0064742-52-5	5 - 10
5	Sulfurized Lard Oil	0068990-81-8	3 - 7
6	Molybdenum Disulfide	0001317-33-5	1 - 5
7	Sodium Sulfonate	0068608-26-4	1 - 5
8	Polyisobutylene	0009003-27-4	0.5 - 1.5

* Exact percentages of composition withheld as trade secret

SECTION 4 - FIRST AID MEASURES

Description of First-Aid Measures

General	If exposed or concerned seek medical advice/attention.
Eye Contact	Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.
Skin Contact	Remove with soap and water, rinsing and repeating for 15 minutes. Use skin cream to counter any resulting dryness. Consult a physician if irritation continues. If large skin area is affected, remove contaminated clothing.
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 if victim is rapidly losing consciousness, unconscious, or convulsing.
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.
First-Aid Responder Protection	Wear adequate personal protective equipment based on the nature and severity of the emergency.

Most Important Symptoms and Effects, Both Acute and Delayed

Eye Contact	Liquid contact may cause pain along with moderate eye irritation.
Skin Contact	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.
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.

Indication of Immediate Medical Attention and Special Treatment

Notes to Physician	Treat symptomatically.
Specific Treatments/Antidotes	No information available.
Immediate Medical Attention	No information available.

SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media	Water, CO2, dry chemical, or universal aqueous film forming foam
Unsuitable Extinguishing Media	Water jet

Specific Hazards Arising from the Chemical or Mixture

Decomposition Products	Oxides of carbon (CO, CO ₂), smoke, and/or vapors
Hazards from the Product	CONTENTS EXTREMELY FLAMMABLE AND UNDER PRESSURE. In a fire or if heated, a pressure increase will occur which may result in the container bursting. Vapours heavier than air may spread along the ground and travel to an ignition source.

Advice for Firefighters

Protective Actions	Use water spray to cool fire exposed containers as contents may rupture violently from heat developed pressure.
Protective Equipment	As with any fire wear SCBA pressure-demand, MSHA/NIOSH approved, and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel	No action should be taken by non-emergency personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spill. Remove ignition sources and provide adequate ventilation only if it is safe to do so.
For Emergency Responders	Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel.

Environmental Precautions

Precautions	Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
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Methods and Materials for Containment and Cleaning Up

Containment Procedures	Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content may be contained with oil/solvent absorbent pads, socks, and/or absorbents. DO NOT use combustible material such as sawdust.
Cleanup Procedures	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.
Other Information	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 ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal.
Prohibited Materials	Combustible absorbent material such as sawdust, use of equipment that may cause sparking.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling

General Handling Precautions	KEEP OUT OF THE REACH OF CHILDREN. Avoid prolonged or repeated skin contact. Avoid breathing of vapors. Do not incinerate (burn) containers. Always replace overcap when not in use. Avoid use around open flames or other sources of ignition. Exposure to heat or prolonged exposure to sun may cause can to burst. Use only with adequate ventilation, opening doors or windows to achieve cross-ventilation. Wash hands after use.
Hygiene Recommendations	Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas.

Conditions for Safe Storage Including Any Incompatibilities

Storage Requirements	Storage of individual cans should be done in an area below 50 °C (122 °F), and away from heat sources. Ensure 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 3 Aerosol.
Incompatibilities	Segregate storage away from materials indicated in Section 10

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

ID	PEL	OSHA STEL	CEILING	IDLH	REL	NIOSH STEL	CEILING	TLV	ACGIH STEL	CEILING	AIHA WEEL
1	1000 ppm	—	—	2000 ppm	1000 ppm	—	—	1000 ppm	—	—	—
3	500 ppm	—	—	750 ppm	85 ppm	—	440 ppm	400 ppm	500 ppm	—	—
4	10 mg/m ³	—	—	—	—	—	—	—	—	—	—
6	10 mg/m ³	—	—	—	—	—	—	—	—	—	—

Biological Exposure Indices

ID	DETERMINANT	SAMPLING TIME	BEI	NOTATION
—	—	—	—	—

Other Control Parameters *Not Available*

Appropriate Engineering Control

Engineering Measures *Use only with adequate ventilation. 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 OEL from the table above.*

Individual Protection Measures

Hygiene Considerations *Avoid breathing vapors and contact with the skin and eyes. Always replace overcap when not in use. Keep out the reach of children. Wash hands after use.*

Thermal Protection *This product does not present a thermal hazard.*

Respiratory Protection *An approved respirator with organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed occupational exposure limits. If respirators are needed, compliance with OSHA standard 29 CFR 1910.134 is necessary.*

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.*

Eye/Face 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.*

Other Protective Equipment *Safety showers and eye-wash stations should be available in the workplace near where the material will be used.*

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Properties

Boiling Point	> 98.4 °C (209.2 °F)	Melting / Freezing Point	> -90.6 °C (-131.0 °F)
Flash Point, Liquid	> -4.0 °C (24.8 °F)	Flash Point, Propellant	-104.4 °C (-156.0 °F)
Explosive Limits	1.05% - 6.70%	Autoignition Temperature, Liquid	204.0 °C (399.2 °F)
Flammability	Extremely Flammable Aerosol	Relative Density (H₂O = 1)	0.752 g/cc
Molecular Weight	Not Available	Weight	6.274 lbs/gal
Vapor Pressure	70.00 psig	pH	Not Available
Vapor Density	3.500 g/cc Maximum	Evaporation Rate	Not Available
Form	Pressurized Product	Partition Coefficient	Not Available
Viscosity	Not Available	Refractive Index	Not Available
Odor Threshold	Not Available	Heat of Combustion (ΔH_c)	Not Available
Odor	Oily/Musty odor	Water Solubility	Not Available
Appearance / Color	Black coating	Decomposition Temperature	Not Available

Air Quality Properties

Percent Volatile	49% Wt (61% Vol) Max	VOC Regulatory	3.037 lbs/gal (363.848 g/L)
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SAFETY DATA SHEET

Part No. 13129 Aerosol

August 10, 2015

Revision 5

Page 5 of 7

Moly Gear and Chain Lube

Percent VOC	49% Wt (61% Vol) Max	VOC Actual	3.037 lbs/gal (363.848 g/L)
Percent HAP	0% Wt (0% Vol) Max	HAP Content	None
Solids/Non Volatile Content	52% Wt (40% Vol) Max	Maximum Incremental Reactivity	0.55 g O ₃ /g
Global Warming Potential	0.555		

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity is available for this product or its ingredients.
Chemical Stability	This product is stable.
Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions are not expected to occur.
Conditions to Avoid	Keep away from heat, sparks, flame, and red hot metal.
Material Incompatibility	Chlorine Dioxide, Strong Oxidizing Agents
Decomposition Productions	Oxides of carbon, Sulfur Oxides may be formed depending on fire conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity Estimates (mixture)

Oral LD ₅₀	5769 mg/kg
Dermal LD ₅₀	2617 mg/kg
Inhalation LC ₅₀	787 mg/L 4-hour

Acute Toxicity on Ingredients

ID	ORAL LD50		DERMAL LD50		INHALATION LC50		
	VALUE	SPECIES	VALUE	SPECIES	VALUE	TIME	SPECIES
1	—	—	—	—	658 mg/L	4h	rat
2	>5000 mg/kg	rat	>3000 mg/kg	rabbit	—	—	—
3	>15000 mg/kg	rat	—	—	103 g/m3	4h	rat
4	>5000 mg/kg	rat	>2000 mg/kg	rabbit	>5560 mg/m3	4h	rat
6	>2000 mg/kg	rat	>2000 mg/kg	rabbit	>2820 mg/kg	4h	rat
7	>5000 mg/kg	rat	—	—	—	—	—
8	>5000 mg/kg	rat	>2000 mg/kg	rabbit	—	—	—

Health Hazard Classification

Skin Corrosion / Irritation	Category 2
Eye Damage / Irritation	Classification criteria not met
Respiratory Irritation	Classification criteria not met
Respiratory / Skin Sensitization	Classification criteria not met
Germ Cell Mutagenicity	Classification criteria not met
Reproductive Toxicity	Classification criteria not met
STOT - Single Exposure	Classification criteria not met
STOT - Repeated Exposure	Classification criteria not met
Aspiration Hazard	Category 1
Carcinogen Data	

ID	Calif Prop-65	OSHA	NIOSH	ACGIH	NTP	IARC
	No	No	No	No	No	No

Information on the Likely Routes of Exposure

Routes of Exposure	Skin contact, skin absorption, eye contact, inhalation
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Information on Physical, Chemical and Toxicological Effects

Symptoms of Exposure	Asphyxia, Chemical Pneumonitis, Dermatitis, Dizziness, Drowsiness, Stupor
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Delayed and Immediate Effects and also Chronic Effects from Short and Long-Term Exposure

Delayed Effects	No known delayed effects.
Immediate Effects	No known immediate effects.
Chronic Effects	Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage (sometimes referred to as "Solvent or Painter's Syndrome"). Intentional misuse by concentrating and inhaling this product may be harmful or fatal.
Medical Conditions Aggravated	May aggravate personnel with pre-existing disorders associated with any of the Target Organs.
Target Organs	Central Nervous System, Eyes, Respiratory System

SECTION 12 - ECOLOGICAL INFORMATION

Acute Aquatic Toxicity

ID	TYPE	FISH VALUE	PERIOD	TYPE	INVERTEBRATES VALUE	PERIOD	TYPE	AQUATIC PLANTS VALUE	PERIOD	TYPE	MICROORGANISMS VALUE	PERIOD
2	LC50	>1000 mg/L	96h	EC50	1.4 mg/L	48h	EC50	3.1 mg/L	96h	EC20	>1000 mg/L	15m
3	EC50	220 mg/L	96h	LC50	>10 mg/L	24h	EC50	1.5 mg/L	8h	—	—	—

Ecological Data

ID	PERSISTENCE	PERSISTENCE AND DEGRADABILITY BOD	COD	ThOD	BIOACCUMULATIVE POTENTIAL Pow / Kow	BCF	MOBILITY Koc
3	—	—	—	—	4.66 log Pow	3.11 log BCF	2.44 log Koc
4	—	—	—	—	3.9 log Pow	—	—

Other Adverse Effects No additional information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal

Characteristics and waste stream classification can change with product use and location. 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 must be disposed of in compliance with the respective national, federal, state, and/or local regulations.

Waste Disposal of Packaging

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.

Landfill Precautions

Not available

Incineration Precautions

** DO NOT INCINERATE ** CONTENTS UNDER PRESSURE **

SECTION 14 - TRANSPORTATION INFORMATION

Transportation Information

UN Number
Proper Shipping Name
Hazard Class(es)
Packaging Group
Marine Pollutant
Hazard Label(s)

Ground Transportation (DOT)

UN1950
Aerosols, Limited Quantity
2.1
—
No



Air Transportation (IATA)

UN1950
Aerosols, Flammable, Limited Quantity
2.1
—
No



Ocean Transportation (IMDG)

UN1950
Aerosols, Limited Quantity
2.1
—
No



SECTION 15 - REGULATORY INFORMATION

Federal Regulations

ID	TSCA LISTED	SARA 302 EHS TPQ	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	SARA 311/312 ACUTE	CHRONIC	PRESSURE	CLEAN AIR ACT HAP	CLEAN AIR ACT SOCMI	CLEAN WATER ACT
1	Yes	—	—	—	—	Yes	—	—	—	—	—	—	—
2	Yes	—	—	—	—	—	—	—	—	—	—	—	—
3	Yes	—	—	—	—	Yes	—	Yes	—	—	—	—	—
4	Yes	—	—	—	—	—	—	—	—	—	—	—	—
5	Yes	—	—	—	—	—	—	—	—	—	—	—	—
6	Yes	—	—	—	—	—	—	—	—	—	—	—	—
7	Yes	—	—	—	—	—	—	—	—	—	—	—	—
8	Yes	—	—	—	—	—	—	—	—	—	—	—	—

State Regulations

ID	CA P-65	DE RQ	MA RTK CODES	ME TYPE	ME RQ	RTK	MN AIR	WATER	NJ RTK	AIR	NY LAND	ACUTE	PA LISTED	WA PEL TWA	WI TABLE	WV TAP
2	—	—	1 *F*C*	—	—	—	—	—	—	—	—	—	—	—	—	—
3	—	—	2,4,5,6	—	—	ANO	—	—	—	—	—	—	Yes	400 ppm	—	—
6	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—

SECTION 16 - OTHER INFORMATION

SDS Revision History

Revision 3, 06/09/2004, Update

Revision 4, 07/09/2015, Updated to GHS Version 3 Format.

Revision 5, 08/10/2015, Changed to reflect Sosmetal information only.

SDS Compliance

This SDS complies with the below listed regulations only. For SDS that comply with other countries, please contact our Regulatory Department at msds@chem-pak.com

OSHA Hazard Communication Standard (HCS 2012) 29 CFR 1910.1200

Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Revision 3

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