SAFETY DATA SHEET
Essentially Similar to U.S. Department of Labor Form OSHA
Revised: 09/10/2014
HMIS Health-1 Flammibility-2 Reactivity 0

SECTION I-Product Information and Company Identification

Manufacturer Name: A.V.W. Inc. d.b.a. Max Pro
24 Hour Emergency Phone Number: 800-424-9300
Product Name: Max Pro Silicone Lubricant 11 oz
Product Use: Silicone Lubricant

SECTION 2 –Hazardous Identification

Emergency Overview
DANGER! Flammable aerosol. Contents under pressure. Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. May cause eye irritation. Avoid eye contact. Use with adequate ventilation. Keep away from heat, sparks and all other sources of ignition.
Symptoms of Overexposure:
Inhalation: High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.
Skin Contact: Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.
Eye Contact: Contact may be irritating to eyes. May cause redness and tearing.
Ingestion: This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.
Chronic Effects: None expected.
Medical Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory conditions may be aggravated by exposure.
Suspected Cancer Agent:
Yes No X

Signs and symptoms	Symptoms may include redness, dryness of the skin.
Odor, Color, Grade	Amber color slight oil smell
General Physical Form	liquid

Immediate health, physical, and environmental hazards:
Closed containers exposed to heat from fire may build pressure and explode.
May cause redness of skin and/or frostbite. May cause target organ effects

SECTION 3 Composition/Information on Ingredients

Ingredient		CAS#			Percentage
n-Hexane	CAS#	11054-8	TWA	50	% 40-60
Acetone	CAS#	67-64-1	TWA	1000	15-25
Propane	CAS#	74-98-6	TWA	1000	5-20
Butane	CAS#	106-97-8	TWA	800	5-20

SECTION 4-First Aid Measures

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Skin:	Flush with cool water. Wash affected area with soap and water. If signs/symptoms persist, get medical attention.
Eye contact:	Immediately flush with large amounts of cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation persist.
Inhalation:	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately. Give artificial respiration or oxygen if needed.
Ingestion:	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. Call 24 Hour Emergency Phone Number: 800-424-9300

SECTION 5-Fire-Fighting Measures

Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

Special Fire Fighting Procedures: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.
Unusual Fire and Explosion Hazards: Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

SECTION 6-Accidental Release Measures

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).
Stop leak if you can do so without risk.
Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above.
Remove sources of ignition.
Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

SECTON 7-Handling and Storage

Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.
Storage: Do not store above 120F or in direct sunlight. U.F.C (NFPA 30B) Level 2 Aerosol. **Storage:**Keep out of reach of children.

SECTION 8-Exposure Controls/Personal Protection

Chemical				**Occupational Exposure Limits**
n-Hexane	CAS#	11054-8	TWA	50
Acetone	CAS#	67-64-1	TWA	1000
Propane	CAS#	74-98-6	TWA	1000
Butane	CAS#	106-97-8	TWA	800

Engineering Controls: Do not use in a confined area or areas with little or no air movement.
Use general dilution ventilation and/or control mist, vapor, or spray.
If ventilation is not adequate, use respiratory protection equipment

Personal protective equipment

Respiratory protection: Do not breathe vapors. Use with adequate ventilation. Keep container closed.
For emergencies select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations:
Half face piece or full face pressure demand self-contained breathing apparatus.

Hand protection: If there is constant skin contact, rubber gloves are recommended.

Eye/Face protection: Avoid eye contact with vapors, mists, or spray.
The following eye protection(s) are recommended: Safety Glasses with side shields.

Skin protection: Avoid prolonged skin contact. Wear insulated or chemical resistant gloves where skin contact likely..

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
Wash hands and face before breaks and immediately after handling product

SECTION 9-Physical and Chemical Properties

Boiling Point: 361°-369°F (183°-187°C)

Specific Gravity	(H2O=1)=.80 @ 60°
Vapor Pressure (mm Hg):	UND
Vapor Density	Greater than 1
PH	Not Applicable
Solubility in Water:	Insoluble
Coefficient of water/oil Distribution	Not determined
Appearance:	light amber with oil odor.
Flash Point	138° 59°C
Pour Point	-63°
Kinematic Viscosity	3.79-2.96cSt @100°F

SECTION 10-Stability and Reactivity

Stability:	Stable
Conditions to Avoid:	Hydrolysis producing small amounts of hydrochloric acid possible with gross water contamination. Avoid open flames, welding arcs, or other high temperature sources, which induce thermal decomposition.
Hazardous Polymerization:	Will not occur.
Incompatibility:	Strong oxidizers; caustics, chemically active metals such as aluminum, magnesium and sodium.

SECTION 11-Toxicological Information

Ingestion:	It is an aspiration hazard. . The oral toxicity of this product is estimated to be greater than 5,000 mg/kg based on an assessment of the ingredients. None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.
Skin	Contact with liquid may cause irritation
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
Sensitization	Non-hazardous by WHMIS/OSHA criteria
Chronic effects	Non-hazardous by WHMIS/OSHA criteria
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria
Synergistic Materials	Not Available

SECTION 12-Ecological Information

Ecotoxicity	Not available
Aquatic toxicity	Not available
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available
Other adverse effects	Not available

SECTION 13 -Disposal Considerations

Waste Code:	Not available
Disposal instructions	Review federal, state/provincial, and local government requirements prior to disposal.
Waste from residues/unused	If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations.

SECTION 14 – Transportation Information

DOT Surface Shipping Description: Consumer Commodity, ORM-D
After 1/1/2014 UN1950, Aerosols, 2.1 Ltd. Qty (Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark)
IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY

SECTION 15-Regulatory Information

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous
Yes
CERCLA (Superfund) reportable quantity
CERCLA 103 Reportable Quantity: Releases of this product in excess of the reportable quantity of 8,330 pounds based on the RQ for n-hexane of 5,000 lbs present at less than 60% must be reported to the National Page 4 of 4 Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard Category For Section 311/312: Acute Health, Chronic Health, Fire Hazard, Sudden Release of Pressure
Section 313 Toxic Chemicals: This product contain s the following chemicals subject to SARA Title III Section 313 Reporting requirements:
Section 302 Extremely Hazardous Substances (TPQ): None
EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory
Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification
Canadian WHMIS Classification: Class B-5 (Flammable Aerosol), Class D-2-B (Eye Irritant, Chronic Health Effects)
This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

Hazard categories

	Immediate Hazard	Yes
	Delayed Hazard	No
	Fire Hazard	Yes
	Pressure Hazard	Yes
	Reactivity Hazard	No
Section 302 extremely hazardous substances	No	
Section 311 hazardous chemical	Yes	
Clean Air Act (CAA)	Not available	
Clean Water Act (CWA)	Not available	
WHMIS status	Controlled	
WHMIS classification	Class A – Compressed Gas, Class B – Division 1 – Flammable Gas	
State regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.	
Inventory name		
Country(s) or region	**Inventory**	
Canada	Domestic Substances List (DSL)	
Canada	Non-Domestic Substances List (NDSL)	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	

SECTION 16-Other Information

	NFPA Hazard Classification
Health:	1
Flammability:	4
Reactivity:	0

	HMIS Hazard Classification
Health:	1
Flammability:	4

Reactivity:	0
Protection:	X – See PPE section

Safety Data Sheet

Revised 01/10/2015

Section 1: Product & Company Identification

Product Name: **White Lithium Grease 13 oz**

Product Number (s): **WG-004-088**

Product Use: lubricating grease

Manufacturer / Supplier Contact Information:
AVW, Inc.
PO Box 9962
Fort Lauderdale, FL 33310
954-972-3338 (General)

24-Hr Emergency – CHEMTREC: (800) 424-9300

Section 2: Hazards Identification

Emergency Overview

DANGER: Extremely Flammable. Harmful or Fatal if Swallowed. Contents Under Pressure.
Appearance & Odor: Off-white, viscous grease with solvent odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause mild irritation including stinging and redness, but does not injure eye.

SKIN: Single, brief exposures may cause mild irritation. Frequent or prolonged contact may cause more severe irritation, defatting of the skin, and dermatitis.

INHALATION: High vapor concentrations are irritating to the respiratory tract and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death. May cause peripheral nervous system disorder and/or damage. Heating the dispensed grease may generate irritating vapors.

INGESTION: Low order of toxicity by ingestion. Main hazard is aspiration into the lungs during swallowing or vomiting. Small amounts aspirated into the respiratory system may cause bronchopneumonia or pulmonary adema, possible progressing to death.

CHRONIC EFFECTS: Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs.

TARGET ORGANS: central nervous system, peripheral nervous system, respiratory system

Medical Conditions Aggravated by Exposure: skin and respiratory conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Lithium Base Grease	N/A	30 - 50
Heptane	142-82-5	10 - 20
Hexane	110-54-3	< 5
Propane / Butane	61641-74-5	35 - 45

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting. Contact a physician immediately.

Note to Physicians: Treat symptomatically. Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3(c)(6)).

Flash Point: < 20°F / -6°C (TCC) Upper Explosive Limit: 9.0

Autoignition Temperature: 489°F / 254°C Lower Explosive Limit: 1.7

Fire and Explosion Data:

Suitable Extinguishing Media: Class B fire extinguishers, dry chemical, foam or CO_2

Products of Combustion: Fumes, smoke and carbon monoxide

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors may accumulate in a confined space and create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition. Do not spray water directly on fire; product will float and could be reignited on surface of water.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up:	Dike area to contain spill. Remove all sources of ignition. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Use proper grounding and bonding procedures for transferring materials. Do not use product near any source of ignition. Avoid contact with eyes and skin. Avoid breathing vapors. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120°F / 49°C to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	OSHA		ACGIH		OTHER		
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Lithium base grease	5	NE	NE	NE	NE		mg/m^3
Heptane	5	NE	NE	NE	NE		ppm
Hexane	500	NE	50(s)	NE	NE		ppm
Propane / Butane	1000	NE	1000	NE	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile, PVC or Viton®. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: semi-solid / grease
Color: off-white
Odor: solvent
Odor Threshold: ND
Specific Gravity: 0.6257
Initial Boiling Point: 140°F / 60°C
Freezing Point: < -50°F / -45°C
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: fast
Solubility: not soluble in water
Coefficient of water/oil distribution: ND
pH: NA

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Sources of ignition, temperature extremes

Incompatible Materials: Strong oxidizers

Hazardous Decomposition Products: Oxides of carbon

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Lithium base grease	> 5000 mg/kg	> 2000 mg/kg	No data
Heptane	No data	No data	No data
Hexane	28,710 mg/kg	> 3000 mg/kg	48,000 ppm/4H
Propane / Butane	No data	No data	No data

Chronic Toxicity:

Component	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen	Irritant	Sensitizer
Lithium base grease	No	No	No	No	Unknown
Heptane	No	No	No	Eye	Unknown
Hexane	No	No	No	Skin	No
Propane / Butane	No	No	No	No	No

Reproductive Toxicity: No information available
Teratogenicity: No information available
Mutagenicity: No information available
Synergistic Effects: No information available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: hexane - 48 Hr EC50 water flea: 3.87 mg/L
96 Hr LC50 Lepomis macrochirus: 4.12 mg/L
Persistence / Degradability: No information available
Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: The packaged liquid product is a RCRA hazardous waste for the characteristic of ignitability with a waste code of D001. The dispensed grease is not a hazardous waste. (See 40 CFR Part 261.20 – 261.33). Empty aerosol containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground): UN1950, Aerosols, flammable, 2.1, Limited Quantity**

ICAO/IATA (air): UN1950, Aerosols, flammable, 2.1, Limited Quantity

IMO/IMDG (water): UN1950, Aerosols, 2.1, Limited Quantity

Special Provisions: **This product can be classified and labeled as 'Consumer Commodity, ORM-D' for domestic ground shipping until January 1, 2016.
If shipping as limited quantity by ground, note that shipping papers are not required.

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):
All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):
Reportable Quantities (RQ's) exist for the following ingredients: hexane (5000 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:
Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:		
	Fire Hazard	Yes
	Reactive Hazard	No
	Release of Pressure	Yes
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
n-hexane (3.2%)

Clean Air Act:
Section 112 Hazardous Air Pollutants (HAPs): hexane

Occupational Safety and Health Administration:
This product is regulated by the Hazard Communications Standard.

U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):
This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

Consumer Products VOC Regulations: This product is not regulated (semi-solid lubricant).

State Right to Know:

New Jersey:	75-83-2, 109-66-0, 78-78-4, 96-37-7, 110-54-3, 79-29-8, 68476-86-8
Pennsylvania:	107-83-5, 75-83-2, 110-54-3, 79-29-8, 68476-86-8
Massachusetts:	107-83-5, 75-83-2, 110-54-3, 79-29-8, 68476-86-8
Rhode Island :	75-83-2, 110-54-3, 79-29-8, 68476-86-8

Canadian Regulations:

Controlled Products Regulations:
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.

WHMIS Hazard Class: A, B5, D2A, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

European Union Regulations:

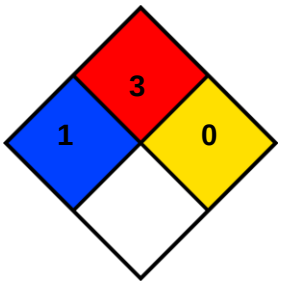
RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Section 16: Other Information

HMIS® (II)	
Health:	**1**
Flammability:	**3**
Reactivity:	**0**
PPE:	**B**

NFPA



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Mike Swan
Product #: WG-004-088
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