



## Artic Winter 3% Moly Grease Safety Data Sheet

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product Identifier

**Material Name:** Artic Winter 3% Moly Grease  
**Synonyms:** Oil-based Grease  
**Restrictions on Use:** None known.

#### Supplier

<b>Boss Lubricants</b>	<b>Emergency Phone Number(s)</b>
112, 6303 30 St. SE	<b>Business:</b> (800) 844-9457
Calgary, AB	<b>Fax #:</b> (403) 279-2272
T2C 1R4	<b>www.bosslubricants.com</b>
<b>Issue Date:</b>	May 4, 2018
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### Section 2: HAZARDS IDENTIFICATION

Classification in accordance with Schedule 1 of Canada's Hazardous Products Regulations (HPR) (SOR/2015-17) and paragraph (d) of 29 CFR 1910.1200 in the United States

Classification of the substance mixture: GHS08

**Aspiration Hazard:** Category 1 H304 Maybe fatal if swallowed and enter airways.  
**Eye Irritation:** Category 2A H319 Causes serious eye irritation.  
**Aquatic Acute 3:** H402 Harmful to aquatic life.  
**Aquatic Chronic 3:** H412 Harmful to aquatic life with long lasting effects.

#### Label Elements

**GHS Label Elements:** The product is classified and labeled according to the Globally Harmonized System(GHS)  
**Hazard Pictograms:** GHS07, GHS08

#### Classification System

#### NFPA ratings (scale 0-4)

**Health:** 2  
**Fire:** 1  
**Reactivity:** 0

#### HMIS ratings (scale 0-4)

**Health:** 2  
**Fire:** 1  
**Reactivity:** 0

**Signal Word:** Danger

**Hazard-determining components of labeling:** Distillates(Petroleum), Hydro treated heavy naphthenic.



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### Hazard Statement(s)

- H319:** Causes serious eye irritation.  
**H304:** Maybe fatal if swallowed and enter airways.  
**H402:** Harmful to aquatic life.  
**H412:** Harmful to aquatic life with long lasting effects

### Precautionary Statement(s)

- P101:** If medical advice is needed, have product container or label at hand.  
**P102:** Keep out of reach of children.  
**P103:** Read label before use.  
**P264:** Wash thoroughly after handling.  
**P273:** Avoid release to the environment.  
**P280:** Wear protective gloves/protective clothing/eye protection/face protection.  
**P305 + P351:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.  
**P301+P310** If swallowed, immediately call a Poison Center/Doctor  
**P331** Do not induce vomiting.  
**P337 + P313:** If eye irritation persists: Get medical advice/attention.  
**P405** Store locked up.  
**P501:** Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### Chemical characterization: Mixtures

**Description:** Mixture of the substances listed below with nonhazardous additions

#### Dangerous Components

CAS	Component Name	Percent
64742-52-5	Distillates (Petroleum), Hydro treated heavy naphthenic	25-50% w/w
68457-79-4	Zinc Dialkylthiophosphate	0.1-2.5%w/w
122-39-4	Diphenylamine	0.1-2.5%w/w

### Section 4: FIRST AID MEASURES

#### Description of first aid measures

- Inhalation:** Supply fresh air; consult doctor in case of complaints.  
**Skin:** Generally the product does not irritate the skin  
**Eye:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
**Ingestion:** If symptoms persist consult a doctor.



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### Information for Doctor

#### Most Important Symptoms/Effects:

**Acute:** No information on significant adverse effects.

**Delayed:** No information on significant adverse effects.

**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### Section 5: FIRE FIGHTING MEASURES

#### Extinguishing Media

**Suitable extinguishing agents:** Use firefighting measures that suit the environment.

**Special hazards arising from the substance or mixture:** No further relevant information available.

#### Advice for firefighters

**Protective equipment:** No special measures required.

### Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions,

#### Protective Equipment and

#### Emergency Procedures:

Not required.

#### Methods and Materials for Containment and Cleaning Up:

Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust.)

Dispose contaminated material as waste according to item 13

#### Environmental Precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

#### Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.



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### Section 7: HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	No special precautions are necessary if used correctly.
<b>Information about protection against explosions and fires:</b>	No special measures required.
<b>Requirements to be met by storerooms and receptacles:</b>	No special requirements.
<b>Information about storage in one common storage facility:</b>	Not required
<b>Further information about storage conditions:</b>	Keep receptacle tightly sealed
<b>Specific end use(s):</b>	No further relevant information available.

### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Additional information about design of technical systems:** No further data; see item 7

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

<b>1317-33-5 molybdenum disulphide (2.5-10%):</b>	<b>EL</b> Long-term value: $3 \cdot 10^{**} \text{ mg/m}^3$ as Mo; *respirable **inhalable
<b>122-39-4 diphenylamine (0.1-2.5%):</b>	<b>EL</b> Long-term value: $10 \text{ mg/m}^3$ <b>EV</b> Long-term value: $10 \text{ mg/m}^3$

**Additional information:** The lists that were valid during the creation were used as basis

**Exposure Controls**

**General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed.

**Skin:** Immediately remove all soiled and contaminated clothing.

**Eye:** Avoid contact with the eyes.

**Breathing equipment:** Not required.

**Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves:** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application

**Penetration time of glove material:** The exact breakthrough time has to be found out by the manufacturer of the gloves and has to be observed

**Eye Protection:** Tightly sealed goggles.



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### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Dark Grey	<b>Physical State:</b>	Semi-Solid
<b>Odor:</b>	Petroleum-like	<b>Color:</b>	Dark Grey
<b>Odor Threshold:</b>	Not available	<b>pH:</b>	Not available
<b>Melting Point:</b>	Not available	<b>Boiling Point:</b>	338°C
<b>Boiling Point Range:</b>	Not available	<b>Freezing point:</b>	Not available
<b>Evaporation Rate:</b>	Not available	<b>Flammability (solid, gas):</b>	Not available
<b>Autoignition Temperature:</b>	Not available	<b>Flash Point:</b>	>163 °C
<b>Lower Explosive Limit:</b>	Not available	<b>Decomposition temperature:</b>	Not available
<b>Upper Explosive Limit:</b>	Not available	<b>Vapor Pressure:</b>	Not available
<b>Vapor Density (air=1):</b>	Not available	<b>Specific Gravity: (water=1)</b>	0.87
<b>Water Solubility:</b>	Insoluble	<b>Partition coefficient: (n-octanol/water)</b>	Not available
<b>Viscosity:</b>	Not available	<b>Kinematic viscosity:</b>	Not available
<b>Solubility (Other):</b>	Not miscible or difficult to mix	<b>Density:</b>	1.06768 g/cm <sup>3</sup>
<b>Pour Point:</b>	Not available	<b>Molecular Weight:</b>	Not available
<b>Volatile Organic Compounds: (As regulated)</b>	Not available		

### Section 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	No further relevant information available
<b><u>Chemical Stability</u></b>	
<b>Thermal decomposition/ conditions to be avoided:</b>	No decomposition if used according to specifications.
<b>Possibility of Hazardous Reactions:</b>	No dangerous reactions known.
<b>Conditions to Avoid:</b>	No further relevant information available.
<b>Incompatible Materials:</b>	No further relevant information available.
<b>Hazardous decomposition products:</b>	No dangerous decomposition products known.

### Section 11: TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

Oral            LD50            >9,340-9,674 mg/kg





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Dermal LD50 >68,201 mg/kg

Inhalative LC50/4 h >94,000 mg/l

122-39-4 diphenylamine

Oral LD50 100 mg/kg (ATE)

Dermal LD50 300 mg/kg (ATE)

Inhalative LC50/4 h 3 mg/l (ATE)

Primary Irritant Effect:

Skin: No irritant effect

Eye: No irritant effect

**Additional Toxicological Information:** The product shows the following dangers according to internally approved calculation methods for preparations: Irritant.

**Carcinogenic categories:**

IARC (International Agency for Research on Cancer) None of the ingredients is listed.

NTP (National Toxicology Program) None of the ingredients is listed.

### Section 12: ECOLOGICAL INFORMATION

#### Toxicity

**Aquatic Toxicity** No further relevant information available.

**Persistence and Degradability:** No further relevant information available.

#### Behaviour in environmental systems

**Bioaccumulative Potential:** No further relevant information available.

**Mobility in soil:** No information available for the product.

#### Ecotoxicological Effects

**Remark:** Harmful to fish

#### Additional Ecological Information

**General Notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Harmful to aquatic organisms

#### Results of PBT and vPvB assessment

**PBT:** Not applicable

**vPvB:** Not applicable

**Other adverse effects:** No further relevant information available.

### Section 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods





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**Recommendation:** Must not be disposed of together with household garbage.  
Do not allow product to reach sewage system.

**Uncleaned Packaging**

**Recommendation:** Disposal must be made according to official regulations.

### Section 14: TRANSPORT INFORMATION

**Basic Description:** Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

**DOT**

**Proper Shipping Name:** Not regulated for transport.  
**UN Number:** Not regulated for transport.  
**Hazard Class:** Not regulated for transport.  
**Packing Group:** Not regulated for transport.

**TDG**

**Proper Shipping Name:** Not regulated for transport.  
**UN Number:** Not regulated for transport.  
**Hazard Class:** Not regulated for transport.  
**Packing Group:** Not regulated for transport.

**IMDG**

**Proper Shipping Name:** Not regulated for transport.  
**UN Number:** Not regulated for transport.  
**Hazard Class:** Not regulated for transport.  
**Packing Group:** Not regulated for transport.  
**Marine Pollutant:** Not regulated for transport.

**IATA**

**Proper Shipping Name:** Not regulated for transport.  
**UN Number:** Not regulated for transport.  
**Hazard Class:** Not regulated for transport.  
**Packing Group:** Not regulated for transport.

**International Bulk Chemical Code:** This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

### Section 15: REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Section 335 (Extremely Hazardous Substances):** None of the ingredients listed.  
**Section 313 (Specific Toxic Chemical Listings):** 68457-79-4 Zinc Dialkylthiophosphate 0.1-2.5%  
 122-394-4 Diphenylamine 0.1-2.5 %  
**TSCA (Toxic Substances Control Act):** All ingredients are listed.

**Canadian Substance Listing**





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**Canadian Domestic Substances List (DSL):** All ingredients are listed.  
**Canadian Ingredient Disclosure list (limit 0.1%):** 122-39-4 Diphenylamine  
**Canadian Ingredient Disclosure list (limit 1%):** None of the ingredients is listed.  
**GHS label elements:** The product is classified and labeled according to the Globally Harmonized System (GHS).



**Hazard pictograms:**  
**Signal word:** Warning  
**Hazard-determining components of labeling:** Distillates (Petroleum), Hydro treated heavy naphthenic  
**Hazard statements:** Causes serious eye irritation.  
 Harmful to aquatic life with long lasting effects

### Precautionary Statements

**P101:** If medical advice is needed, have product container or label at hand.  
**P102:** Keep out of reach of children.  
**P103:** Read label before use.  
**P264:** Wash thoroughly after handling.  
**P273:** Avoid release to the environment.  
**P280:** Wear protective gloves/protective clothing/eye protection/face protection.  
**P305 + P351:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, If present and easy to do. Continue Rinsing.  
**P301+P310** If swallowed, immediately call a Poison Center/Doctor  
**P331** Do not induce vomiting.  
**P337 + P313:** If eye irritation persists: Get medical advice/attention.  
**P405** Store locked up.  
**P501:** Dispose of contents/container in accordance with local/regional/national/international regulations.

### **Section 16: OTHER INFORMATION**

**Issue Date:** May 4, 2018  
**Supersedes Issue Date:** January 01, 2015  
**Revision Information:** Update to SDS.

#### References

<b>ACGIH:</b> American Conference of Governmental Industrial Hygienists	<b>IMDG:</b> International Maritime Dangerous Goods
<b>AIHA:</b> American Industrial Hygiene Association	<b>IUCLID:</b> International Uniform Chemical Information Database
<b>BOD:</b> Biochemical Oxygen Demand	<b>NFPA:</b> National Fire Protection Association







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<b>°C:</b>	Celsius	<b>NIOSH:</b>	National Institute for Occupational Safety and Health
<b>CAS:</b>	Chemical Abstracts Service	<b>NTP:</b>	National Toxicology Program
<b>CERCLA:</b>	Comprehensive Environmental Response, Compensation, and Liability Act	<b>OSHA:</b>	Occupational Safety and Health Administration
<b>CFR:</b>	Code of Federal Regulations	<b>PEL:</b>	Permissible Exposure Limit
<b>CPR:</b>	Controlled Products Regulations	<b>RTK:</b>	Right-to-Know
<b>DOT:</b>	United States Department of Transportation	<b>SARA:</b>	Superfund Amendments and Reauthorization Act
<b>DSL:</b>	Domestic Substances List	<b>STEL:</b>	Short-term Exposure Limit
<b>EPA:</b>	Environmental Protection Agency	<b>TDG:</b>	Transportation of Dangerous Goods
<b>°F:</b>	Fahrenheit	<b>TLV:</b>	Threshold limit value
<b>GHS:</b>	Globally Harmonized System of Classification and Labeling of Chemicals	<b>TSCA:</b>	Toxic Substances Control Act
<b>HMIS:</b>	Hazardous Materials Identification System	<b>TWA:</b>	Time weighted average
<b>IARC:</b>	International Agency for Research on Cancer	<b>UN:</b>	United Nations
<b>IATA:</b>	International Air Transportation Association	<b>WHMIS:</b>	Workplace Hazardous Materials Information System
<b>IDLH:</b>	Immediately Dangerous to Life or Health		

**Disclaimer** This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

