



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

Boss Lubricants	Emergency Phone Number(s)
112, 6303 30 St. SE	Business: (800) 844-9457
Calgary, AB	Fax #: (403) 279-2272
T2C 1R4	www.bosslubricants.com
Issue Date:	May 4, 2018
Supersedes Issue Date:	January 01, 2015

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.



Artic Winter 3% Moly Grease

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.



Artic Winter 3% Moly Grease

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:	available.	No further relevant information

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.



Artic Winter 3% Moly Grease

Section 7: HANDLING AND STORAGE

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

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



Artic Winter 3% Moly Grease

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Section 10: STABILITY AND REACTIVITY

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





Arctic Winter 3% Moly Grease

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





Artic Winter 3% Moly Grease

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



Arctic Winter 3% Moly Grease

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

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



Artic Winter 3% Moly Grease

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

