

SAFETY DATA SHEET

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BOSS CONVENTIONAL GEAR LUBE 80W-90, 85W-140

Relevant identified uses of the substance or mixture and uses advised against

RECOMMENDED USE: Gear Oil

RECOMMENDED RESTRICTIONS: Not applicable

COMPANY IDENTIFICATION

BOSS LUBRICANTS
112, 6303 -30 ST SE
Calgary, AB
T2C 1R4

EMERGENCY TELEPHONE NUMBERS

Information: 1-800-844-9457

Emergency: 1-800-844-9457

www.bosslubricants.com

CHEMTREC EMERGENCY NUMBER (24 hr): (800) 424-9300

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Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture: Skin Sensitisation Category 1

Hazardous to the aquatic environment - Chronic Category 3

Label elements

GHS Hazard Symbols



Signal Word: Warning

Hazard Statements

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P261: Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P321: Specific treatment (see section 4).

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

Disposal

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Hazards not otherwise classified: Avoid prolonged or repeated skin contact with used fluid.

Unknown acute toxicity (GHS-US)



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LUBRICANTS



Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #	GHS Classification
Residual oils, petroleum, solvent-refined	30 - 60	64742-01-4	Acute Tox. 4; H332 Acute Tox. 3; H331
Distillates (petroleum), Solvent-dewaxed heavy paraffinic	15 - 40	64742-65-0	Aquatic Chronic 4; H413
Distillates (petroleum), solvent-refined heavy paraffinic	15 - 40	64741-88-4	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Acute Tox. 4; H302 Carc. 2; H351 Flam. Sol. 1; H228
Cumene	1 - 5	98-82-8	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Acute Tox. 4; H302 Flam. Liq. 3; H226 STOT SE 3; H335, H336
Ethyl acrylate	0.1 - 1	140-88-5	Acute Tox. 4; H312 Acute Tox. 3; H331 Acute Tox. 4; H302 Eye Irrit. 2; H319 Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335, H336

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

Section 4: FIRST AID MEASURES

- EYE:** Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.
- SKIN:** Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.
- INGESTION:** Severely irritating. Do not induce vomiting. Seek medical attention immediately. Drink 2 glasses of water or milk to dilute.
- INHALATION:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen and get medical attention immediately.
- Most important symptoms and effects, both acute and delayed Symptoms:** Not determined
- Indication of any immediate medical attention and special treatment needed**
- Note to Doctor:** No additional first aid information available.

Section 5: FIRE FIGHTING MEASURES

Extinguishing media Suitable and Unsuitable

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

Special hazards arising from the substance or mixture

Fire and/or Explosion Hazards: Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.



Advice for firefighters

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Measures: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Environmental precautions: Remove from water surface by skimming or with suitable absorbents. Do not use dispersants. Avoid runoff into storm sewers and ditches that lead to waterways. Do not flush to sewer. Avoid runoff into storm sewers and ditches that lead to waterways.

Methods and material for containment and cleaning up

Methods for cleaning up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center. {EMSFORM_06GHS_CLEAN}

Reference to other sections: Follow all protective equipment recommendations provided in Section 8.

Section 7: HANDLING AND STORAGE

Precautions for safe handling: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer.

Conditions for safe storage, including any incompatibilities: Store in a cool dry place. Isolate from incompatible materials.

Incompatible materials: See Section 10.

Specific end use(s): Gear Oil

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use in a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

SKIN PROTECTION: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: Nitrile, Silver Shield, Viton, and/or 4H

RESPIRATORY PROTECTION: No special respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended exposure limits. If not, select a NIOSH/MSHA approved respirator that provides adequate protection from concentrations of this material. Use the following elements for air-purifying respirators: particulate. Avoid prolonged and/or repeated contact with skin.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Limit, % in air:	Not established
Color:	Brown	Flammability (solid, gas):	Not applicable
Odor:	Mild	Vapor pressure:	Not determined
Odor threshold:	Not determined	Vapor Density:	4.42
pH:	Not determined	Relative Density:	0.89
Freezing point:	Not determined	Solubility in Water:	Negligible; 0-1%
Boiling Point:	Not determined	Octanol/Water Partition Coefficient:	Not determined
Flash Point (°C):	224	Autoignition Temperature:	Not determined
Flash Point Method:	COC	Decomposition Temperature:	Not determined
Evaporation Rate:	No data available.	Viscosity(°C):	143
Upper Flammable/Explosive Limit, % in air:	Not established	Volatile organic compound (VOC) content and percentage of volatiles:	0.000000
Lower Flammable/Explosive			

Section 10: STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products:	No data available.

Section 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Ingestion Toxicity:	No hazard in normal industrial use. Estimated to be > 5.0 g/kg.
Skin Contact:	This material is likely to be moderately irritating to skin based on animal data. Can cause severe irritation, defatting, and dermatitis. Irritation effects may last for hours or days but will not likely result in permanent damage.
Absorption:	Likely to be practically non-toxic based on animal data.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs"). Likely to be practically non-toxic based on animal data.
Eye Contact:	This material is likely to be severely irritating to eyes based on animal data. Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.
Sensitization:	Non-hazardous under Respiratory Sensitization category.
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Carcinogenicity:	Contains a substance that is a possible cancer hazard based on high dose animal studies and/or a human study.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Specific target organ Toxicity	
Single exposure:	Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.
Repeated exposure:	Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.

Long-Term (Chronic) Health Effects: No data available.
Aspiration toxicity: Non-hazardous under Aspiration category.

Section 12: ECOLOGICAL INFORMATION

Toxicity

Acute Aquatic ecotoxicity: Non-hazardous under Aquatic Acute Environment category.
Chronic Aquatic ecotoxicity: H412 - Harmful to aquatic life with long lasting effects.
Persistence and degradability: Does not biodegrade readily.
Bioaccumulative potential: Bioconcentration is not expected to occur.
Mobility in soil: This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.
Results of PBT and vPvB assessment: No data available.
Other adverse effects: Not determined

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal Code(s)
Waste Description for Spent Product: Spent or discarded material is non-hazardous according to environmental regulations.
Contaminated packaging: Recycle containers whenever possible.

Section 14: TRANSPORT INFORMATION

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

DOT

Proper Shipping Name: No data available.
UN Number: No data available.
Hazard Class: No data available.
Packing Group: No data available.

TDG

Proper Shipping Name: No data available.
UN Number: No data available.
Hazard Class: No data available.
Packing Group: No data available.

IMDG

Proper Shipping Name: No data available.
UN Number: No data available.
Hazard Class: No data available.
Packing Group: No data available.
Marine Pollutant: No data available.

IATA

Proper Shipping Name: No data available.
UN Number: No data available.
Hazard Class: No data available.
Packing Group: No data available.

Section 15: REGULATORY INFORMATION

Canadian Legislation

WHMIS:	B4, D2A
	B2, D2A
	B2, D2A, D2B
	B2, D1A, D2A, D2B, E, F

U.S. Federal Restrictions

Chemical Name	Regulation	CAS #	%
Benzene, (1-methylethyl) -	CERCLA	98-82-8	1 - 5
Ethylbenzene	CERCLA	100-41-4	1 - 5
Hexone	CERCLA	108-10-1	0.1 - 1
Ethyl acrylate	CERCLA	140-88-5	0.1 - 1
Cumene	SARA 313	98-82-8	1 - 5
Ethylbenzene	SARA 313	100-41-4	1 - 5
Methyl isobutyl ketone	SARA 313	108-10-1	0.1 - 1
Ethyl acrylate	SARA 313	140-88-5	0.1 - 1
None.	SARA EHS		
None.	TSCA 12b		

U.S. State Regulations

Chemical Name	Regulation	CAS #	%
Cumene	California Prop 65-Cancer	98-82-8	1 - 5
ethylbenzene	California Prop 65-Cancer	100-41-4	1 - 5
ISOBUTYL METHYL KETONE	California Prop 65-Cancer	108-10-1	0.1 - 1
Ethyl acrylate	California Prop 65- Cancer	140-88-5	0.1 - 1
Methyl isobutyl ketone (MIBK)	California Prop 65- Dev. Toxicity	108-10-1	0.1 - 1
None.	California Prop 65- Reprod -fem		
None.	California Prop 65- Reprod-male		
Cumene	Massachusetts RTK List	98-82-8	1 - 5
ethylbenzene	Massachusetts RTK List	100-41-4	1 - 5
Ethyl acrylate	Massachusetts RTK List	140-88-5	0.1 - 1
Naphthalene	New Jersey RTK List	91-20-3	15 - 40
Cumene	New Jersey RTK List	98-82-8	1 - 5
Ethylbenzene	New Jersey RTK List	100-41-4	1 - 5
Ethyl acrylate	New Jersey RTK List	140-88-5	0.1 - 1
Benzene, (1-methylethyl)-	Pennsylvania RTK List	98-82-8	1 - 5
Ethylbenzene	Pennsylvania RTK List	100-41-4	1 - 5
2-Propenoic acid, ethyl ester	Pennsylvania RTK List	140-88-5	0.1 - 1
None.	Rhode Island RTK List		
Cumene	Minnesota Hazardous Substance List	98-82-8	1 - 5
ethylbenzene	Minnesota Hazardous Substance List	100-41-4	1 - 5
Ethyl acrylate	Minnesota Hazardous Substance List	140-88-5	0.1 - 1



HMIS Ratings:

Health: 3
 Fire: 1
 Reactivity: 0
 PPE: B

NFPA Ratings:

Health: 3
 Fire: 1
 Reactivity: 0

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 – Extreme

Section 16: OTHER INFORMATION

Revision Information: Update to SDS

Reference

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CFR: Code of Federal Regulations

DOT: United States Department of Transportation

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

IATA: International Air Transportation Association

IDLH: Immediately Dangerous to Life or Health

IMDG: International Maritime Dangerous Goods

NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RTK: Right-to-Know

SARA: Superfund Amendments and Reauthorization Act

STEL: Short-term Exposure Limit

TLV: Threshold limit value

TSCA: Toxic Substances Control Act

TWA: Time weighted average

UN: United Nations

WHMIS: Workplace Hazardous Materials Information System

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.

