



BOSS HEAVY DUTY EXTREME ENGINE OILS API CK-4 15W40, 10W30 SDS

Safety Data Sheet

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Material Name: BOSS HEAVY DUTY EXTREME ENGINE OILS API CK-4 15W40, 10W30

Recommended Use: Lubricating oils. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

Restrictions on Use: None known.

Details of the supplier of the safety data sheet

BOSS Lubricants	Phone: 1-403-279-2223
6303 30 Street SE	Emergency # 1-800-844-9457
Suite 112	www.bosslubricants.com
Calgary, AB T2C 1R4	

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Section 2: HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200: None needed per classification criteria

GHS Label Elements

Symbol(s): None needed per classification criteria.

Signal Word: None needed per classification criteria

Hazard Statement(s): None needed per classification criteria

Precautionary Statement(s)

Prevention: None needed per classification criteria.

Response: None needed per classification criteria.

Storage: None needed per classification criteria.

Disposal: Dispose of in accordance with all applicable federal, state and local regulations.

Other Hazards: Repeated exposure may cause skin dryness or cracking.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
64742-58-1	Lubricating oils, petroleum, hydrotreated spent	75-80
64742-65-0	Distillates, petroleum, solvent-dewaxed heavy paraffinic	5-10
113706-15-3	Phosphorodithioic acid, mixed O,O-bis(sec-butyl and isooctyl) esters, zinc salts	1-5
64741-89-5	Distillates, petroleum, solvent-refined light paraffinic	1-5
64742-54-7	Distillates, petroleum, hydrotreated heavy paraffinic	1-5
64742-70-7	Paraffin oils, petroleum, catalytic dewaxed heavy	0.1-1



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Section 4: FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention, if needed.

Skin: Wash with plenty of soap and water. Get medical attention, if needed.

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention, if needed.

Ingestion: Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms/Effects

Acute: No information on significant adverse effects.

Delayed: Repeated exposure may cause skin dryness or cracking.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically and supportively.

Section 5: FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide, regular foam, dry chemical, water spray, water fog, Water or foam may cause frothing.

Unsuitable Extinguishing Media: Do not use high-pressure water streams.

Special Hazards Arising from the Chemical: Negligible fire hazard. Avoid friction, static electricity and sparks.

Hazardous Combustion Products: Decomposition and combustion materials may be toxic. Burning may produce sulfur oxides, aldehydes, ketones, carbon monoxide and unidentified organic compounds.

Fire Fighting Measures: A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Special Protective Equipment and Precautions for Firefighters: Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up: Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, spark proof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal. There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see SECTION 15: REGULATORY INFORMATION.





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Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Keep away from heat, sparks and naked flames. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, do not breathe vapor or mist. Use in a well-ventilated area. Avoid contact with eyes Skin clothing shoes.

Conditions for Safe Storage, including any Incompatibilities: None needed per classification criteria.

Additional information: Storage. Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

Incompatible Materials: Strong oxidizing materials

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits: The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI): There are no biological limit values for any of this product's components.

Engineering Controls: Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection: Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of vapors or mists. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

Respiratory Protection: No respiratory protection is normally required. Protection provided by air purifying respirators is limited. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

Glove Recommendations: Where skin contact is likely, wear neoprene, nitrile, or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended.

Protective Materials: Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Safety glasses, Gloves, and Lab coat or apron.



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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid.	Decomposition temperature:	Not available
Physical State:	Liquid	Upper Explosive Limit:	Not available
Odor:	Petroleum	Vapor Pressure:	<0.1 mmHg @ 68°F °C (20 °C)
Color:	Amber.	Vapor Density (air=1):	Not available
Odor Threshold:	Not available	Specific Gravity (water=1):	0.87 (Approximate)
pH:	Not available	Water = 1)	
Melting Point:	Not available	Water Solubility:	(Insoluble)
Boiling Point:	129.5 °C (265 °F Minimum)	Partition coefficient: noctanol/water:	Not available
Boiling Point Range:	Not available	Viscosity:	>100 SUS
Freezing point:	Not available	Solubility (Other):	Not available
Evaporation Rate:	Not available	Density:	7.3 lb/gal (US Approximate)
Flammability (solid, gas):	Not available	Physical Form:	Liquid.
Autoignition Temperature:	Not available	Pour Point:	-3 °C (27 °F Maximum)
Flash Point:	165 °C [Cleveland Open Cup.]	Molecular Weight:	Not available
(329 °F Minimum)		Other Information:	No additional information is available
Lower Explosive Limit:	Not available		

Section 10: STABILITY AND REACTIVITY

Reactivity:	No reactivity hazard is expected.
Chemical Stability:	Stable under normal temperatures and pressures.
Possibility of Hazardous Reactions:	Will not polymerize.
Conditions to Avoid:	Avoid heat, flames, sparks and other sources of ignition
Incompatible Materials:	Avoid oxidizing agents.
Hazardous decomposition products:	None under normal temperatures and pressures.

Section 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation:	No information on significant adverse effects.
Skin Contact:	No information on significant adverse effects.
Eye Contact:	No information on significant adverse effects.
Ingestion:	No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50: The components of this material have been reviewed in various sources and the following selected endpoints are published:

Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

Oral LD50 Rat >2000 mg/kg;

Dermal LD50 Rabbit >4480 mg/kg

Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0)





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Oral LD50 Rat >15000 mg/kg (no deaths occurred);
Dermal LD50 Rabbit >5000 mg/kg (no deaths occurred)
Inhalation LC50 Rat >2400 mg/m³ 4 h (no deaths occurred)

Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)

Oral LD50 Rat >15 g/kg;
Dermal LD50 Rabbit >5 g/kg;
Inhalation LC50 Rat 2.18 mg/L 4 h

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)
Oral LD50 Rat >15 g/kg (no deaths occurred);
Dermal LD50 Rabbit >5000 mg/kg (no deaths occurred)

Paraffin oils, petroleum, catalytic dewaxed heavy (64742-70-7)

Oral LD50 Rat >15000 mg/kg;
Dermal LD50 Rabbit >5000 mg/kg

Product Toxicity Data

Acute Toxicity Estimate

Dermal > 2000 mg/kg
Oral > 2000 mg/kg

Immediate Effects: No information on significant adverse effects.
Delayed Effects: Repeated exposure may cause skin dryness or cracking.
Irritation/Corrosivity Data: May cause slight skin and respiratory irritation.
Respiratory Sensitization: No information available for the product.
Dermal Sensitization: No information available for the product.
Component Carcinogenicity: None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA
Germ Cell Mutagenicity: No information available for the product.
Tumorigenic Data: No data available
Reproductive Toxicity: No information available for the product.
Specific Target Organ Toxicity - Single Exposure: No information on significant adverse effects.
Specific Target Organ Toxicity - Repeated Exposure: No information on significant adverse effects.
Aspiration hazard: No information available for the product.
Medical Conditions Aggravated by Exposure: Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life.

Component Analysis - Aquatic Toxicity

Lubricating oils, petroleum, hydrotreated spent

Fish:

64742-58-1

LC50 96 h Brachydanio rerio 79.6 mg/L [semi-static];
LC50 96 h Pimephales promelas 3.2 mg/L [semi-static]

Distillates, petroleum, solvent dewaxed heavy paraffinic

Fish:

64742-65-0

LC50 96 h Oncorhynchus mykiss >5000 mg/L
EC50 48 h Daphnia magna >1000 mg/L IUCLID

Invertebrate:

Distillates, petroleum, solvent refined light paraffinic

64741-89-5





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Fish: LC50 96 h Oncorhynchus mykiss >5000 mg/L
 Invertebrate: EC50 48 h Daphnia magna >1000 mg/L IUCLID
Distillates, petroleum, hydrotreated heavy paraffinic 64742-54-7
 Fish: LC50 96 h Oncorhynchus mykiss >5000 mg/L
 Invertebrate: EC50 48 h Daphnia magna >1000 mg/L IUCLID
Persistence and Degradability: No information available for the product.
Bioaccumulative Potential: No information available for the product.
Mobility: No information available for the product.
Other Toxicity: No additional information is available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.
Component Waste Numbers: The U.S. EPA has not published waste numbers for this product's components.

Section 14: TRANSPORT INFORMATION

US DOT Information: Not regulated as dangerous goods.
IATA Information: Not regulated as a hazardous material.
TDG Information: Not regulated as dangerous goods.

Section 15: REGULATORY INFORMATION

U.S. Federal Regulations: None of these products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No	Pressure: No
Chronic Health: No	Reactivity: No
Fire: No	

U.S. State Regulations: The following components appear on one or more of the following state hazardous substances lists

Component	CAS	CA	MA	MN	NJ	PA
Distillates, petroleum, solvent-refined light paraffinic	64741-89-5	No	Yes	No	No	No
Paraffin oils, petroleum, catalytic dewaxed heavy	64742-70-7	No	Yes	No	No	No

Not listed under California Proposition 65

Canada Regulations

Canadian WHMIS Ingredient Disclosure List (IDL): The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

Component Analysis – Inventory: Lubricating oils, petroleum, hydrotreated spent (64742-58-1); Distillates, petroleum, solvent-dewaxed heavy paraffinic (64742-65-0); Phosphorodithioic acid, mixed O,O-bis(sec-butyl and isooctyl) esters, zinc salts





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(113706-15-3); Distillates, petroleum, solvent-refined light paraffinic (64741-89-5); Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7) Paraffin oils, petroleum, catalytic dewaxed heavy (64742-70-7)

US
Yes

CA
DSL

Section 16: OTHER INFORMATION

NFPA Ratings

Health: 1
Fire: 1
Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes: New SDS 11/29/2016

References

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.