

SAFETY DATA SHEET

1. Product Identification

Product line: CHAMPION ® Blue Flame HD Engine Oils

Products: 4358, 4373

CAS: Not applicable (Mixture)
Synonyms: Heavy Duty Diesel Engine Oil

Recommended use: Engine Crankcase Oil Restrictions: None determined

2. Hazards Identification

Appearance: Amber liquid Odor: Mild Petroleum

Classification: Skin Sensitizer, Cat 1
Target organs: Not Determined



Symbol(s): Warning

Hazard Statement(s): May cause allergic skin reaction.

Other hazard(s): Product will burn, though difficult to ignite. This product

produces oil sheen on bodies of water. Mists of sprays of this

product may be harmful if inhaled. Product contains components which are harmful to environment and may cause skin or eye irritation, but at concentrations below GHS classification criteria. Used crankcase oil may contain

carcinogenic combustion by-products.

Precaution(s): Avoid breathing vapors/mist/spray. Wear protective

gloves/protective clothing/eye protection. Contaminated work clothing should not be allowed out of the workplace. If skin

irritation occurs: Get medical advice. Avoid release to the

environment.

Disposal: Keep out of waterways. Check local, national, and

international regulations for proper disposal

3. Composition/Information on Ingredients

Hazardous Ingredients:

Component	CAS No.	Conc (wt%)
Mineral Oil	Mixture	90 – 100
Zinc Dialkyldithiophosphate	68649-42-3	0 – 2
01154100-5284P	Trade Secret	0-2
01154100-5301P	Trade Secret	< 1

4. First Aid Measures

Eyes Flush eyes with running water for at least 15 minutes. Get

medical attention if irritation persists

Skin Flush exposed area with running water for at least 15

minutes. Remove contaminated clothing and launder before reuse. To remove material from skin, use waterless hand cleaner, mineral oil, or petroleum jelly. Get medical attention if irritation persists or if signs of an allergic reaction appear.

Inhalation Move to fresh air. If nausea or other symptoms persist, get

medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get medical attention

immediately.

Ingestion DO NOT INDUCE VOMITING. If vomiting occurs

spontaneously, lower head below hips to reduce risk of aspiration. If conscious, give one glass of water. Get

immediate medical attention

Additional Info Note to physician: Treat symptomatically. Contact poison

control for more information.

5. Fire Fighting Measures

Flash Point > 180°C / 356°F (based on flammability of components)

NFPA Health: 0 Fire: 1 Reactivity: 0

Extinguishing Media Use water spray, fog, foam, dry chemical or CO₂

Unsuitable Media Water jet may cause fire to spread

Firefighting Procedures: Fire-fighters should wear positive pressure self-contained

breathing apparatus (SCBA) and full turnout gear

Unusual Hazards See section 10 for additional information

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Keep

unnecessary personnel away. Wear appropriate personal protective equipment for emergency. Ventilate if released in a confined area. Eliminate sources of ignition if it is safe to do so. Wear suitable personal protective equipment and stop the spread of material will adsorbent or socks if safe to do so.

Environmental precautions: Avoid release to the environment. Prevent from

entering into soil, ditches, sewers, waterways or groundwater.

Produces oil sheen on waterways. Toxic to aquatic

organisms

Methods for removal: Use a pump or bucket to recover free liquid. Residual liquid

can be absorbed on inert material. Use non-sparking tools.

7. Handling and Storage

Max. Handling Temp: 70°C / 158°F

Procedures: Open container in a cool, well ventilated area. Avoid

breathing vapors. Keep containers closed when not in use.

Use appropriate containment to avoid environmental

contamination. Avoid use in confined areas without adequate

ventilation. Areas of inadequate ventilation could contain

concentrations high enough to cause eve irritation. headaches, respiratory discomfort or nausea. Avoid breathing dust, fume, gas, mist, vapors, or spray. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of the product. Dispose of packaging or containers in accordance with local, regional, national, and international regulations. Store away from

strong oxidizers

Max Store Temp: 40°C / 104°F

8. Exposure Controls/Personal Protection

Exposure Limits Guidelines by component

Mineral Oil (mists)

OSHA TWA: 5 mg/m3 ACGIH TWA: 5 mg/m3 TWA (Canada) 5 mg/m3 STEL (Canada) 10 mg/m3

EH40-MEL 5 mg/m3, 8 hours NOHSC 5 mg/m3, 8 hours

Other Exposure Limits: None known

Engineering Controls: Use in a well ventilated area. Where possible, cover sources

of oil sprays and mists with adsorbent cloth to minimize exposure to mineral oil mists. Keep concentrations of mist

below exposure limits

Personal Protective Equipment

Respiratory: Where mineral oil mists are generated – use full face

respirator with organic vapor cartridge.

Eye: Wear safety glasses where splashing or splattering may

occur

Gloves: Use nitrile or neoprene gloves. If material is hot, use

appropriately insulated gloves.

Clothing: Use neoprene or nitrile gloves. When handling at elevated

temperatures, use insulated apron or coat. Launder

contaminated clothing before reuse

Hygiene: Wash thoroughly after handling this product.

9. Physical and Chemical Properties

Appearance Amber liquid
Odor Mild Petroleum
Odor threshold Not determined
PH Not determined
Melting Point Not determined
Initial Boiling Pt/Rng Not determined

Flash Point > 180°C / 356°F (estimated based on components)

Evaporation Rate Nil (where nBuAc = 1)

Upper Flammable Lm
Lower Flammable Lm
Explosive Data
Vapor Pressure
Vapor Density
Volatile Organics

Not determined
Not determined
Not determined
Not determined
Not determined

Density 0.9 mg/cu. cm @15.6°C

Solubility Insoluble in water, alcohols; soluble in organics

K_{ow} Not determined

Viscosity Varies with SAE viscosity grade

Autoignition Point Not determined Decomposition Temp Not determined

10. Stability and Reactivity

Stability Material is normally stable at normal temperatures and

pressures

Decomposition Temp Not determined

Incompatibility Oxidizers and reducers

Polymerization Will not occur

Thermal Decomposition Smoke, oxides of carbon, nitrogen, phosphorous, boron,

sulfur, and metals. May also generate hydrogen sulfide and alkyl mercaptans if stored for extended periods of time at

elevated temperatures

Conditions to Avoid Keep away from heat, flames, strong oxidizers and strong

reducing agents

11. Toxicological Information

- Acute Exposure -

Eye Irritation Repeated exposure may cause mild irritation based on data

from components. Symptoms may include redness, itchiness, or increased watering of the eyes. Vapors may

cause irritation at elevated temperatures

Skin Irritation Repeated or prolonged exposure cause skin sensitization or

allergic dermatitis based on data from components.

Symptoms may include redness, drying, and cracking of the

skin.

Respiratory Irritation May cause nose, throat and lung irritation based on data from

components. These effects may be more prevalent with

mists at elevated temperatures.

Dermal Toxicity Not expected to present a danger of dermal toxicity under

normal conditions of use.

Inhalation Toxicity Inhalation of this product is not expected to be toxic.

Exposure to mineral oil mists may be harmful. Symptoms of over-exposure to mineral oil mists may be similar to that of

pneumonia.

Oral Toxicity
Aspiration Hazard

Not expected to be harmful. LD50 in rats exceeds 5g/Kg. This product does not present a classifiable hazard of aspiration due to viscosity – however, this product may be fatal if swallowed and enters airways, particularly in those with weakened respiratory systems.

- Chronic Exposure -

Chronic Toxicity No data available to indicate product or components present

at greater than 0.2% are chronic health hazards

Carcinogenicity This product contains mineral oils which are considered to be

severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated

to contain less than 3% extractables by the IP 346 test.

Mutagenicity No data available to indicate product or any components at

greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity No data available to indicate product or any components at

greater than 0.1% may cause reproductive toxicity.

Teratogenicity No data available to indicate product or any components at

greater than 0.1% may cause teratogenic effects.

12. Ecological Information

- Environmental Toxicity -

Miscellaneous

Other Effects

No LD/LC/EC50 data was collected for this product. Some components of this product are considered chronic toxicants to aquatic life, though at concentration that is not sufficient to require classification as a marine pollutant or aquatic toxicant.

- Environmental Fate -

Biodegradation The petroleum oil in this product is not readily biodegradable,

but can be broken down by microorganisms and is therefore

considered to be inherently biodegradable. Some

components of this product may persist in the environment The petroleum oil in this product has a K_{ow} greater than 5.3

and is regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce this potential.

Soil Mobility This product is expected to have low soil mobility due to very

low water solubility and low vapor pressure. Petroleum oils adsorb to soil and sediment. Once adsorbed, the product is expected to adhere to soil until it is slowly biodegraded.

Product will produce oil sheen and float on the surface of

bodies of water. The product will spread across the surface

as a function of viscosity and velocities of water and surface wind.

13. Disposal Considerations

Disposal Considerations

All disposal practices must be in accordance with local, regional, national, and international regulations. Do not dispose in a landfill. Wherever possible, recycle product to used oil collection facilities in accordance with applicable regulations.

Contaminated Containers or Packaging

Dispose of packaging or containers in accordance with local, regional, national, and international regulations

14. Transportation Information

Description shown may not apply to all shipping situations. Consult applicable shipping codes to determine any additional shipping requirements

US DOT Not Regulated

*If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)

UN No
UN Proper Name
UN Class
Packing Group

Not applicable
Not applicable
Not applicable

Marine Pollutant *Yes

IMDG Not Regulated

*U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25. If transported in bulk by marine vessel in international waters, product is being carried under the scope of MARPOL Annex I.

ICAO/IATA Not Regulated

*U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23, & 24.

15. Regulatory Information

- Global Chemical Inventories -

USA All components of this material are on the US TSCA or are

exempt

Other TSCA Reg. None known

EU Components of this product comply with EU 7th Amendment

and are approved for EU sales. Records must be maintained and reported to EU only registrants if product is imported to

^{*}Product contains petroleum oil which may be classified as a marine pollutant under MARPOL Annex I under certain shipping conditions

the EU. Third party importers are asked to report every EU

import to Champion Brands, LLC.

New Zealand Canada

All components are listed or exempted

All components are in compliance with the Canadian Environmental Protection Act and are present on the

Domestic Substances List

- Other U.S. Federal Regulations -

SARA Ext. Haz. Subst. This product does not contain greater than 1.0% of any chemical on the SARA Extremely Hazardous Substances list.

SARA Sect. 311/312 Acute Hazard - YES

Chronic Hazard - NO
Fire Hazard - NO
Reactivity Hazard - NO

CERCLA None known

EPCRA Zink dialkyldithiosphosphate (CAS # 68649-42-3)

Diphenylamine (CAS # 122-39-4)

- State Regulations -

CA Prop 65 This product contains no ingredients known to the State of

California to cause cancer and/or birth defects

Right to Know Component	Right to Know States	
Zinc dialkyldithiosphosphate	NJ	
(CAS # 68649-42-3)		
Diphenylamine	NJ, PA, MA	
(CAS # 122-39-4)		

1. Other Information

Revision updates may be in many sections and the MSDS should be read in its entirety. Prepared according to the UN Globally Harmonized System for the Classification and Labeling of Chemicals (GHS) by Champion.

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