		Page: 1
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil

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

Details of the supplier of the safety data sheet Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509 United States of America (USA) 1-800-TEAMVAL	Emergency telephone number 1-800-VALVOLINE Regulatory Information Number 1-800-TEAMVAL Product Information 1-800-TEAMVAL
---	--

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

GHS label elements

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

Other hazards


None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
Mineral Oil		Asp. Tox. 1; H304	8.8681
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS	84605-29-8	Skin Irrit. 2; H315 Eye Dam. 1; H318	1.4471
DODECYLPHENOL, MIXED	121158-58-5	Skin Irrit. 2; H315	0.3501

		Page: 2
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		


ISOMERS		Eye Irrit. 2A; H319	
		Repr. 2; H361f	

SECTION 4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.
Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : No symptoms known or expected.
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO2)
Dry chemical
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide
Hydrocarbons
Oxides of phosphorus

		Page: 3
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.

Conditions for safe storage : Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Materials to avoid : No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

SAFETY DATA SHEET

Revision Date: 12/14/2016

Print Date: 1/5/2018

SDS Number: 000000040441

Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil

Version: 1.4

836064

Components	CAS-No.
Mineral Oil	
PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS	84605-29-8
DODECYLPHENOL, MIXED ISOMERS	121158-58-5

Engineering measures : General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Wear resistant gloves (consult your safety equipment supplier).
Wear as appropriate:
Safety shoes

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Odour : No data available

Odour Threshold : No data available


pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 199 °C
Method: Cleveland open cup


Evaporation rate : No data available

		Page: 5
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		

Flammability (solid, gas) : No data available
 Upper explosion limit : No data available
 Lower explosion limit : No data available
 Vapour pressure : 0.0133333 hPa (21.11 °C)
 Calculated Vapor Pressure
 Relative vapour density : No data available
 Relative density : 0.879 (15.6 °C)
 Density : 0.879 g/cm3 (15.6 °C)
 Solubility(ies)
 Water solubility : No data available
 Solubility in other solvents : No data available
 Partition coefficient: n-octanol/water : No data available
 Thermal decomposition : No data available
 Viscosity
 Viscosity, dynamic : No data available
 Viscosity, kinematic : No data available
 Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
 Chemical stability : Stable under recommended storage conditions.
 Possibility of hazardous reactions : Product will not undergo hazardous polymerization.
 Conditions to avoid : None known.
 Incompatible materials : Strong oxidizing agents
 Hazardous decomposition products : No hazardous decomposition products are known.

		Page: 6
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Acute oral toxicity : LD50 (Rat): 3,100 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.3 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Skin corrosion/irritation

Not classified based on available information.

Components:

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Species: Rabbit

Result: Irritating to skin.

DODECYLPHENOL, MIXED ISOMERS:

Result: Skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:


Species: Rabbit

Result: Corrosive

DODECYLPHENOL, MIXED ISOMERS:

Result: Eye irritation

Respiratory or skin sensitisation

		Page: 7
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Test Type: Buehler Test

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Genotoxicity in vitro

: Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

DODECYLPHENOL, MIXED ISOMERS:

Reproductive toxicity -

: Some evidence of adverse effects on sexual function and

Assessment

fertility, based on animal experiments.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

Mineral Oil:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:


Ecotoxicology Assessment

Acute aquatic toxicity

: Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity

: Chronic aquatic toxicity Category 3; Harmful to aquatic life

		Page: 8
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		

with long lasting effects.

Components:

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Test substance: WAF
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 23 mg/l
 Exposure time: 48 h
 Test Type: static test
 Test substance: WAF
 Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Desmodesmus subspicatus (green algae)): 24 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Test substance: WAF
 Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.4 mg/l
 Exposure time: 28 d
 End point: Reproduction Test
 Test substance: WAF
 Method: OECD Test Guideline 211

DODECYLPHENOL, MIXED ISOMERS:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment
 Acute aquatic toxicity : Very toxic to aquatic life.


Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Biodegradability : Result: Not readily biodegradable.
 Biodegradation: 1.5 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301B

No data available

		Page: 9
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		

Bioaccumulative potential

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS:

Partition coefficient: n-octanol/water : log Pow: 0.56

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods

CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods



SAFETY DATA SHEET

Revision Date: 12/14/2016

Print Date: 1/5/2018

SDS Number: 000000040441

Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil

Version: 1.4

836064

TDG ROAD C

Not dangerous goods

TDG RAIL C

Not dangerous goods

TDG INWT C

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MX_DG

Not dangerous goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	no
------------------	----

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION


**EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

		Page: 11
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		

SARA 313

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS 84605-29-8 1.44 %

California Prop 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

The components of this product are reported in the following inventories:

- DSL : All components of this product are on the Canadian DSL
- AICS : Not in compliance with the inventory
- ENCS : Not in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : Not in compliance with the inventory
- TSCA : On TSCA Inventory

Inventories


AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

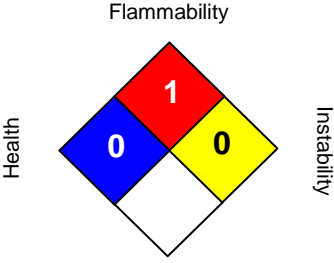
SECTION 16. OTHER INFORMATION

Further information

Revision Date: 12/14/2016

NFPA:	HMIS III:
--------------	------------------

		Page: 12
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		

 <p style="text-align: center;">Special hazard.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0000FF; color: white; text-align: center;">HEALTH</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #FF0000; color: white; text-align: center;">FLAMMABILITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FFFF00; text-align: center;">PHYSICAL HAZARD</td> <td style="text-align: center;">0</td> </tr> </table> <p style="font-size: small;">0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	HEALTH	0	FLAMMABILITY	1	PHYSICAL HAZARD	0
HEALTH	0						
FLAMMABILITY	1						
PHYSICAL HAZARD	0						

NFPA Flammable and Combustible Liquids Classification
Combustible Liquid Class IIIB

Full text of H-Statements


- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H361f Suspected of damaging fertility.

Sources of key data used to compile the Safety Data Sheet
Valvoline internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

- ACGIH : American Conference of Industrial Hygienists
- BEI : Biological Exposure Index
- CAS : Chemical Abstracts Service (Division of the American Chemical Society).
- CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
- FG : Food grade
- GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
- H-statement : Hazard Statement
- IATA : International Air Transport Association.

		Page: 13
SAFETY DATA SHEET		Revision Date: 12/14/2016
		Print Date: 1/5/2018
		SDS Number: 000000040441
Premium Blue™ CLASSIC SAE 15W-40 CI-4 PLUS Diesel Engine Oil		Version: 1.4
836064		

IATA-DGR : Dangerous Goods Regulation by the “International Air Transport Association” (IATA).

ICAO : International Civil Aviation Organization
 ICAO-TI (ICAO) : Technical Instructions by the “International Civil Aviation Organization”
 IMDG : International Maritime Code for Dangerous Goods
 ISO : International Organization for Standardization
 logPow : octanol-water partition coefficient
 LCxx : Lethal Concentration, for xx percent of test population
 LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development
 OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
 DOT : Department of Transportation
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
 HMIRC : Hazardous Materials Information Review Commission
 HMIS : Hazardous Materials Identification System
 NFPA : National Fire Protection Association
 NIOSH : National Institute for Occupational Safety and Health
 OSHA : Occupational Safety and Health Administration
 PMRA : Health Canada Pest Management Regulatory Agency
 RTK : Right to Know
 WHMIS : Workplace Hazardous Materials Information System