	Page: 1
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil 876140	Version: 6.0

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Premium Blue™ 8600 ES SAE 15W-40 Engine Oil

### Details of the supplier of the safety data sheet

Valvoline LLC  
100 Valvoline Way  
Lexington, KY 40509  
United States of America (USA)  
1-800-TEAMVAL (1-800-832-6825)

SDS@valvoline.com

### Emergency telephone number

+1-800-VALVOLINE (+1-800-825-8654)

### Regulatory Information Number

1-800-TEAMVAL (1-800-832-6825)

### Product Information

1-800-TEAMVAL (1-800-832-6825)

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Not a hazardous substance or mixture.

### GHS label elements

Not a hazardous substance or mixture.

### Other hazards which do not result in classification


No information available.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
PETROLEUM DISTILLATES	64742-54-7	Not a hazardous substance or mixture.	>= 70.00 - < 90.00
PETROLEUM DISTILLATES	64742-54-7	Asp. Tox. 1; H304	>= 1.00 - < 10.00
Reaction products of Benzeneamine, N-phenyl- with nonene (branched)	36878-20-3	Skin Corr/Irr 3; H316 Aquatic Chronic 4;	>= 2.50 - < 10.00

	Page: 2
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil	Version: 6.0
876140	


		H413	
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	Skin Sens. 1B; H317	>= 0.10 - < 1.00
BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS		Skin Sens. 1B; H317	>= 0.10 - < 1.00

#### 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
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	Page: 3
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil 876140	Version: 6.0

Foam  
Carbon dioxide (CO<sub>2</sub>)  
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  
Nitrogen oxides (NO<sub>x</sub>)

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

Standard procedure for chemical fires.

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.  
Comply with all applicable federal, state, and local regulations.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

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.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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

Materials to avoid : No materials to be especially mentioned.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis


**SAFETY DATA SHEET**

Revision Date: 05/10/2019

Print Date: 10/21/2020

SDS Number: R0306034

Premium Blue™ 8600 ES SAE 15W-40 Engine Oil

Version: 6.0

876140

PETROLEUM DISTILLATES	64742-65-0	CMP (Mist)	5 mg/m3 Mist	AR OEL
		CMP - CPT (Mist)	10 mg/m3 Mist	AR OEL
		TWA (Mist)	5 mg/m3 Mist	PE OEL
		STEL (Mist)	10 mg/m3 Mist	PE OEL
		L-8/40 (Mist)	5 mg/m3 Mist	VE OEL
		LB (Mist)	10 mg/m3 Mist	VE OEL
		CPT (Mist)	5 mg/m3 Mist	PA OEL
		CCT (Mist)	10 mg/m3 Mist	PA OEL
		TWA	5 mg/m3	CR OEL
PETROLEUM DISTILLATES	64742-55-8	CMP (Mist)	5 mg/m3 Mist	AR OEL
		CMP - CPT (Mist)	10 mg/m3 Mist	AR OEL
		TWA (Mist)	5 mg/m3 Mist	PE OEL
		STEL (Mist)	10 mg/m3 Mist	PE OEL
		L-8/40 (Mist)	5 mg/m3 Mist	VE OEL
		LB (Mist)	10 mg/m3 Mist	VE OEL
		CPT (Mist)	5 mg/m3 Mist	PA OEL
		CCT (Mist)	10 mg/m3 Mist	PA OEL
		TWA	5 mg/m3	CR OEL
DISTILLATES (PETROLEUM)	64742-65-0	CMP (Mist)	5 mg/m3 Mist	AR OEL
		CMP - CPT (Mist)	10 mg/m3 Mist	AR OEL
		TWA (Mist)	5 mg/m3 Mist	PE OEL
		STEL (Mist)	10 mg/m3 Mist	PE OEL
		L-8/40 (Mist)	5 mg/m3 Mist	VE OEL
		LB (Mist)	10 mg/m3 Mist	VE OEL
		CPT (Mist)	5 mg/m3 Mist	PA OEL
		CCT (Mist)	10 mg/m3 Mist	PA OEL
		TWA	5 mg/m3	CR OEL

**SAFETY DATA SHEET**

Revision Date: 05/10/2019

Print Date: 10/21/2020

SDS Number: R0306034

Premium Blue™ 8600 ES SAE 15W-40 Engine Oil

Version: 6.0

876140

PETROLEUM DISTILLATES	64742-54-7	CMP (Mist)	5 mg/m3 Mist	AR OEL
		CMP - CPT (Mist)	10 mg/m3 Mist	AR OEL
		TWA (Mist)	5 mg/m3 Mist	PE OEL
		STEL (Mist)	10 mg/m3 Mist	PE OEL
		L-8/40 (Mist)	5 mg/m3 Mist	VE OEL
		LB (Mist)	10 mg/m3 Mist	VE OEL
		CPT (Mist)	5 mg/m3 Mist	PA OEL
		CCT (Mist)	10 mg/m3 Mist	PA OEL
		L-8/40	0.2 mg/m3	VE OEL
		TWA	5 mg/m3	CR OEL
PETROLEUM DISTILLATES	64742-54-7	CMP (Mist)	5 mg/m3 Mist	AR OEL
		CMP - CPT (Mist)	10 mg/m3 Mist	AR OEL
		TWA (Mist)	5 mg/m3 Mist	PE OEL
		STEL (Mist)	10 mg/m3 Mist	PE OEL
		L-8/40 (Mist)	5 mg/m3 Mist	VE OEL
		LB (Mist)	10 mg/m3 Mist	VE OEL
		CPT (Mist)	5 mg/m3 Mist	PA OEL
		CCT (Mist)	10 mg/m3 Mist	PA OEL
		L-8/40	0.2 mg/m3	VE OEL
		TWA	5 mg/m3	CR OEL

**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.

	Page: 6
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil	Version: 6.0
876140	

Skin and body protection : Wear as appropriate:  
Safety shoes

Hygiene measures : General industrial hygiene practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : amber

Odour : hydrocarbon-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : > 218.3 °C

Flash point : 201 - 249 °C  
Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : 6 %(V)  
Calculated Explosive Limit

Lower explosion limit / Lower flammability limit : 1 %(V)  
Calculated Explosive Limit

Vapour pressure : 0.0133333 hPa (21.11 °C)  
Calculated Vapor Pressure


Relative vapour density : No data available

Relative density : No data available

Density : 0.880 g/cm<sup>3</sup> (15.56 °C)

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : No data available

	Page: 7
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil 876140	Version: 6.0

Partition coefficient: n-octanol/water : No data available  
 Decomposition temperature : No data available  
 Viscosity  
     Viscosity, dynamic : No data available  
     Viscosity, kinematic : 115 mm<sup>2</sup>/s ( 40 °C)  
 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.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified based on available information.

### Components:

#### PETROLEUM DISTILLATES:


Acute oral toxicity : LD50 (Rat): > 15 g/kg  
 Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

#### PETROLEUM DISTILLATES:

Acute oral toxicity : LD50 (Rat): > 15 g/kg  
 Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

#### Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
 Remarks: No mortality observed at this dose.  
 Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

	Page: 8
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil	Version: 6.0
876140	

Assessment: Not classified as acutely toxic by dermal absorption under GHS.  
Remarks: Information given is based on data obtained from similar substances.

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Acute oral toxicity : LD50 (Rat): > 16,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): > 1.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

PETROLEUM DISTILLATES:

Result: Slight, transient irritation

PETROLEUM DISTILLATES:

Result: Slight, transient irritation

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Species: Rabbit  
Result: Mild skin irritation  
Remarks: Information given is based on data obtained from similar substances.

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Species: Rabbit  
Result: No skin irritation

#### Serious eye damage/eye irritation


Not classified based on available information.

#### Product:

Remarks: Unlikely to cause eye irritation or injury.

#### Components:



	Page: 9
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil 876140	Version: 6.0

**PETROLEUM DISTILLATES:**

Result: **No eye irritation**

**PETROLEUM DISTILLATES:**

Result: **No eye irritation**

**Reaction products of Benzeneamine, N-phenyl- with nonene (branched):**

Species: **Rabbit**

Result: **Slight, transient irritation**

Remarks: **Information given is based on data obtained from similar substances.**

**Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

Species: **Rabbit**

Result: **Slight, transient irritation**

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:**

**Reaction products of Benzeneamine, N-phenyl- with nonene (branched):**

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

Method: **OECD Test Guideline 406**

**Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

Assessment: **The product is a skin sensitiser, sub-category 1B.**

**BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:**

Assessment: **The product is a skin sensitiser, sub-category 1B.**

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**Reaction products of Benzeneamine, N-phenyl- with nonene (branched):**

Genotoxicity in vitro

: Test Type: **Ames test**

Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

Result: **negative**


**Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

Genotoxicity in vitro

: Test Type: **Ames test**

Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

	Page: 10
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil	Version: 6.0
876140	

Result: **negative**

#### **Carcinogenicity**

Not classified based on available information.

#### **Components:**

PETROLEUM DISTILLATES:

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

#### **Reproductive toxicity**

Not classified based on available information.

#### **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.

#### **Product:**

No aspiration toxicity classification

#### **Components:**

PETROLEUM DISTILLATES:

**No aspiration toxicity classification**

PETROLEUM DISTILLATES:

**May be fatal if swallowed and enters airways.**

#### **Further information**

#### **Product:**

Remarks: No data available

## **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### **Components:**

PETROLEUM DISTILLATES:

Toxicity to fish : **LL50 (Fish): > 100 mg/l**  
Exposure time: **96 h**

Toxicity to daphnia and other aquatic invertebrates : **EL50 (Aquatic invertebrates): > 10,000 mg/l**  
Exposure time: **48 h**

**SAFETY DATA SHEET**

Revision Date: 05/10/2019

Print Date: 10/21/2020

SDS Number: R0306034

Premium Blue™ 8600 ES SAE 15W-40 Engine Oil

Version: 6.0

876140

Toxicity to algae : **EL50 (Algae, algal mat (Algae))**: > 100 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : **NOEC (Fish)**: 10 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC (Aquatic invertebrates)**: 10 mg/l

**PETROLEUM DISTILLATES:**

Toxicity to fish : **LL50 (Fish)**: > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : **EL50 (Aquatic invertebrates)**: > 10,000 mg/l  
Exposure time: 48 h

Toxicity to algae : **EL50 (Algae, algal mat (Algae))**: > 100 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : **NOEC (Fish)**: 10 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC (Aquatic invertebrates)**: 10 mg/l

**Reaction products of Benzeneamine, N-phenyl- with nonene (branched):**

Toxicity to fish : **LC50 (Danio rerio (zebra fish))**: > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea))**: > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: WAF

Toxicity to algae : **EC50 (Pseudokirchneriella subcapitata (algae))**: 600 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test

**Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

Toxicity to fish : **LL50 (Cyprinodon variegatus (sheepshead minnow))**: > 10,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: WAF  
Method: OECD Test Guideline 203  
Remarks: Information given is based on data obtained from similar substances.

# SAFETY DATA SHEET

Revision Date: 05/10/2019

Print Date: 10/21/2020

SDS Number: R0306034

Premium Blue™ 8600 ES SAE 15W-40 Engine Oil

Version: 6.0

876140

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): > 1,000 mg/l**  
 Exposure time: **48 h**  
 Test Type: **static test**  
 Test substance: **WAF**  
 Method: **OECD Test Guideline 202**  
 Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to algae : **NOEC (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l**  
 End point: **Growth inhibition**  
 Exposure time: **96 h**  
 Test Type: **static test**  
 Test substance: **WAF**  
 Remarks: **Information given is based on data obtained from similar substances.**

No data available

## Persistence and degradability

### Components:

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Biodegradability : Result: **Not readily biodegradable.**  
 Biodegradation: **0 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301B**

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Biodegradability : Result: **Not readily biodegradable.**  
 Biodegradation: **8 %**  
 Exposure time: **28 d**

No data available

## Bioaccumulative potential

### Components:

PETROLEUM DISTILLATES:

Partition coefficient: n-octanol/water : log Pow: **Expected > 7**

Reaction products of Benzeneamine, N-phenyl- with nonene (branched):

Partition coefficient: n-octanol/water : log Pow: **> 7.5**

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Partition coefficient: n-octanol/water : log Pow: **10.9**

No data available


## Mobility in soil

### Components:

No data available

## Other adverse effects

No data available

	Page: 13
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil 876140	Version: 6.0

**Product:**

Additional ecological information : No data available

**Components:**

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Contaminated packaging : Empty remaining contents.

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**SECTION 14. TRANSPORT INFORMATION**

**International Regulations**

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical Control Order (CCO) : Not applicable

Priority Chemical List (PCL) : Not applicable

**Other international regulations**


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

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

	Page: 14
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil 876140	Version: 6.0

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : 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: 05/10/2019

#### Full text of H-Statements


H304 May be fatal if swallowed and enters airways.  
H316 Causes mild skin irritation.  
H317 May cause an allergic skin reaction.  
H413 May cause long lasting harmful effects to aquatic life.

Other information : 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).

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.

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

	Page: 15
<b>SAFETY DATA SHEET</b>	Revision Date: 05/10/2019
	Print Date: 10/21/2020
	SDS Number: R0306034
Premium Blue™ 8600 ES SAE 15W-40 Engine Oil	Version: 6.0
876140	

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

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

CEATOX

Assistance Center of the Institute of Toxicology

Children's Hospital Clinic, Faculty of Medicine

University of São Paulo.

BR OEL : Occupational Exposure Limit (Brazil)

UY OEL : Occupational Exposure Limit (Uruguay)

PY OEL : Occupational Exposure Limit (Paraguay)