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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Premium Blue™ 8600 ES SAE 10W-30 Diesel Engine Oil

™ Trademark, Valvoline or its subsidiaries, registered in various countries

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

Recommended use : Engine, gear & lubricating oil.

<b>Details of the supplier of the safety data sheet</b> Valvoline LLC 100 Valvoline Way Lexington, KY 40509 United States of America (USA) 1-800-TEAMVAL (1-800-832-6825)  SDS@valvoline.com	<b>Emergency telephone number</b> +1-800-VALVOLINE (+1-800-825-8654)  <b>Regulatory Information Number</b> 1-800-TEAMVAL (1-800-832-6825)  <b>Product Information</b> 1-800-TEAMVAL (1-800-832-6825)
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## 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 (%)
Distillates, petroleum,	64741-88-4	Not a hazardous substance or mixture.	>= 50.00 - < 70.00
PETROLEUM DISTILLATES	64742-54-7	Not a hazardous substance or mixture.	>= 20.00 - < 30.00

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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; H413	>= 2.50 - < 10.00
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	: No symptoms known or expected.

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delayed

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 (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.

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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
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
		CMP (Mist)	5 mg/m3 Mist	AR OEL
DISTILLATES (PETROLEUM)	64742-65-0	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
		CMP (Mist)	5 mg/m3 Mist	AR OEL
		CMP - CPT (Mist)	10 mg/m3 Mist	AR OEL

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		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	64742-54-7	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.


Skin and body protection : Wear as appropriate:  
Safety shoes

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Hygiene measures : General industrial hygiene practice.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: 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	: 287.78 °C (1,013.333333 hPa) Calculated Phase Transition Liquid/Gas
Flash point	: > 199 °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	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: < 1 hPa (20 °C) Calculated Vapor Pressure
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.870 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available

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Decomposition temperature : No data available

Viscosity  
 Viscosity, dynamic : No data available  
 No data available

Viscosity, kinematic : 77 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:

Distillates, petroleum,:

Acute oral toxicity	: LD <sub>50</sub> (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC <sub>50</sub> (Rat): > 5.58 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: Not classified as acutely toxic by inhalation under GHS. Remarks: No mortality observed at this dose.
Acute dermal toxicity	: LD <sub>50</sub> (Rabbit): > 5,000 mg/kg Remarks: No mortality observed at this dose.

### PETROLEUM DISTILLATES:

Acute oral toxicity	: LD <sub>50</sub> (Rat): > 15 g/kg
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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  
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:**

Distillates, petroleum,:

Species: Rabbit

Result: No skin irritation


**PETROLEUM DISTILLATES:**

Result: Slight, transient irritation

**PETROLEUM DISTILLATES:**

Result: Slight, transient irritation



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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:**

Distillates, petroleum,:

Species: **Rabbit**

Result: **No eye irritation**

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:**

Distillates, petroleum,:

Test Type: **Buehler Test**

Species: **Guinea pig**

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

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**  
 Result: **negative**

#### Carcinogenicity

Not classified based on available information.

#### Components:

PETROLEUM DISTILLATES:

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

#### 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

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Not classified based on available information.

**Product:**

No aspiration toxicity classification

**Components:**

Distillates, petroleum,:

No aspiration toxicity classification

**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:**

Distillates, petroleum,:

Toxicity to fish	: LL50 ( <i>Pimephales promelas</i> (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	: EL50 ( <i>Daphnia magna</i> (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	: NOEL ( <i>Pseudokirchneriella subcapitata</i> (green algae)): >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201

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Toxicity to fish (Chronic toxicity) : **NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >= 1,000 mg/l**  
 Exposure time: 14 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEL (Daphnia (water flea)): 10 mg/l**  
 Exposure time: 21 d  
 Test substance: WAF  
 Method: OECD Test Guideline 211

## 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**

## 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

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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.

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:

Distillates, petroleum,:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 - 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

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.

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Biodegradation: 8 %  
Exposure time: 28 d

No data available

**Bioaccumulative potential****Components:**

PETROLEUM DISTILLATES:

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

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

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

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

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

No data available

**Mobility in soil****Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological : No data available  
information

**Components:****SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Contaminated packaging : Empty remaining contents.

**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.

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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

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

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### 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.

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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  
 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



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CEATOX

Assistance Center of the Institute of Toxicology

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University of São Paulo.

BR OEL : Occupational Exposure Limit (Brazil)

UY OEL : Occupational Exposure Limit (Uruguay)

PY OEL : Occupational Exposure Limit (Paraguay)