	Page: 1
SAFETY DATA SHEET	Revision Date: 09/23/2016
	Print Date: 11/1/2016
	SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289	Version: 1.6

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE
10W-30
ENGINE OIL
™ Trademark, Valvoline or its subsidiaries, regisred in
various countries

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 (%)
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	Asp. Tox. 1; H304	25.1221
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Not a hazardous substance or mixture.	5.2532

		Page: 2
SAFETY DATA SHEET		Revision Date: 09/23/2016
		Print Date: 11/1/2016
		SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289		Version: 1.6

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts	113706-15-3	Skin Irrit. 2; H315 Eye Dam. 1; H318	1.0357
-------------------------------------------------------------------------------------	-------------	-----------------------------------------	--------

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	: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: acne stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways)
Notes to physician	: No hazards which require special first aid measures.

	Page: 3
SAFETY DATA SHEET	Revision Date: 09/23/2016
	Print Date: 11/1/2016
	SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289	Version: 1.6

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
 Nitrogen oxides (NO_x)
 Sulphur oxides
 hydrogen sulfide
 mercaptans
 zinc oxide
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : 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.
- 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.
- 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

	Page: 4
SAFETY DATA SHEET	Revision Date: 09/23/2016
	Print Date: 11/1/2016
	SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289	Version: 1.6

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
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
DISTILLATES (PETROLEUM), SOLVENT-REFINED LIGHT PA	64741-89-5	PEL	5 mg/m3 particulate	CAL PEL
		TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL

Hazardous components without workplace control parameters

Components	CAS-No.
------------	---------

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.

	Page: 5
SAFETY DATA SHEET	Revision Date: 09/23/2016
	Print Date: 11/1/2016
	SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289	Version: 1.6

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	: 550.00 °F / 287.78 °C (1,013.333333 hPa)
Flash point	: Calculated Phase Transition Liquid/Gas > 199 °C Method: Cleveland open cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: < 1 hPa (20 °C) Calculated Vapor Pressure
Relative vapour density	: No data available
Relative density	: No data available

**SAFETY DATA SHEET**

Revision Date: 09/23/2016

Print Date: 11/1/2016

SDS Number: 000000226118

Version: 1.6

Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30
ENGINE OIL
™ Trademark, Valvoline or its subsidiaries, regisred in various
countries
818289

Density : 0.870 g/cm3

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 : 77 mm2/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 : excessive heat

Incompatible materials : Acids
Strong oxidizing agents
water

Hazardous decomposition
products : carbon dioxide and carbon monoxide
Hydrocarbons
hydrogen sulfide
Nitrogen oxides (NOx)
Sulphur oxides
zinc oxide
mercaptans

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

	Page: 7
SAFETY DATA SHEET	Revision Date: 09/23/2016
	Print Date: 11/1/2016
	SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289	Version: 1.6

exposure

Skin contact

Eye Contact

Ingestion

Acute toxicity

Not classified based on available information.

Components:

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

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

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

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

Acute oral toxicity : LD50 (Rat): 2,900 mg/kg

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

Acute dermal toxicity : LD50 (Rabbit): > 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.

Skin corrosion/irritation

Not classified based on available information.

Components:

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Result: Slight, transient irritation

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Result: Slight, transient irritation

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

Result: Irritating to skin.

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

Serious eye damage/eye irritation

Not classified based on available information.


Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Result: No eye irritation

	Page: 8
SAFETY DATA SHEET	Revision Date: 09/23/2016
	Print Date: 11/1/2016
	SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289	Version: 1.6

Distillates (petroleum), solvent-dewaxed heavy paraffinic:
 Result: Slight, transient irritation

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:
 Result: Corrosive
 Remarks: Information given is based on data obtained from similar substances.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
 Respiratory sensitisation: Not classified based on available information.

Components:

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:
 Test Type: Buehler Test
 Species: Guinea pig
 Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity
 Not classified based on available information.

Components:

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:
 Genotoxicity in vitro : Remarks: In vitro tests showed mutagenic effects which were
 not observed with in vivo test.

Genotoxicity in vivo : Test Type: chromosome aberration assay
 Test species: Mouse
 Cell type: peripheral blood cells
 Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:
 Effects on fertility : Species: Rat
 Application Route: Oral
 Dose: 100 mg/kg bw/day
 Symptoms: No effects on reproduction parameters

Effects on foetal development : Species: Rat
 Application Route: Oral
 Developmental Toxicity: No observed adverse effect level F1:
 100 mg/kg body weight

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.

	Page: 9
SAFETY DATA SHEET	Revision Date: 09/23/2016
	Print Date: 11/1/2016
	SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289	Version: 1.6

Product:

No aspiration toxicity classification

Components:

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:
 May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Components:

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:


Toxicity to fish : LL50 (Fish): > 100 mg/l

Toxicity to daphnia and other aquatic invertebrates : EL50 (Aquatic invertebrates): > 10,000 mg/l

Toxicity to algae : EL50 (Algae, algal mat (Algae)): > 100 mg/l

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

		Page: 10
SAFETY DATA SHEET		Revision Date: 09/23/2016
		Print Date: 11/1/2016
		SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289		Version: 1.6

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:
 Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l
 Exposure time: 96 h
 Remarks: Information given is based on data obtained from similar substances.

Persistence and degradability

Components:

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:
 Biodegradability : Result: Not readily biodegradable.
 Remarks: Information given is based on data obtained from similar substances.

No data available

Bioaccumulative potential

Components:

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:
 Bioaccumulation : Bioconcentration factor (BCF): 3
 Remarks: Information given is based on data obtained from similar substances.

No data available

Mobility in soil

Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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


Contaminated packaging : Empty remaining contents.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

		Page: 11
SAFETY DATA SHEET		Revision Date: 09/23/2016
		Print Date: 11/1/2016
		SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289		Version: 1.6

U.S. DOT - ROAD

Not dangerous goods

CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

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.

	Page: 12
SAFETY DATA SHEET	Revision Date: 09/23/2016
	Print Date: 11/1/2016
	SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289	Version: 1.6

SECTION 15. REGULATORY INFORMATION

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

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ETHYLENEDIAMINE	107-15-3	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ETHYLENEDIAMINE	107-15-3	5000	*
ETHYLENEDIAMINE	107-15-3		*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : No SARA Hazards

SARA 313

Phosphorodithioic acid, 113706-15-3 1.03 %
 mixed O,O-bis(sec-Bu and
 isooctyl) esters, zinc salts

California Prop 65 This product does not contain any chemicals known to State
 of California to cause cancer, birth defects, or any other
 reproductive harm.

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

TSCA : On TSCA Inventory

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

AICS : Not in compliance with the inventory

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


KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

Inventories

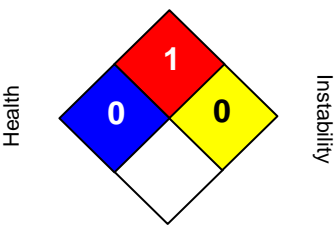
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL
 (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

	Page: 13
SAFETY DATA SHEET	Revision Date: 09/23/2016
	Print Date: 11/1/2016
	SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289	Version: 1.6

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 09/23/2016

NFPA:	HMIS III:						
<p>Flammability</p> <p>Health</p> <p>Instability</p>  <p>Special hazard.</p>	<table border="1"> <tr> <td>HEALTH</td><td>0</td></tr> <tr> <td>FLAMMABILITY</td><td>1</td></tr> <tr> <td>PHYSICAL HAZARD</td><td>0</td></tr> </table> <p>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.

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

	Page: 14
SAFETY DATA SHEET	Revision Date: 09/23/2016
	Print Date: 11/1/2016
	SDS Number: 000000226118
Premium Blue™ Synthetic Blend Heavy Duty Diesel SAE 10W-30 ENGINE OIL ™ Trademark, Valvoline or its subsidiaries, regisred in various countries 818289	Version: 1.6

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

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