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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Premium Blue™ EXTREME Full Synthetic SAE 5W-40

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 : Lubricant

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) 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

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : Suspected of damaging fertility or the unborn child.

Precautionary Statements : **Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Wear protective gloves/ protective clothing/ eye protection/ face

protection. Response:

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IF exposed or concerned: Get medical advice/ attention.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	Asp. Tox. 1; H304	46.9487
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (<3 % DMSO EXTRACT)	64742-65-0	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	5.8507
ZINC BIS[O-(6- METHYLHELPTYL)]BIS[O-SEC- BUTYL)]BIS(DITHIOPHOSPATE)	93819-94-4	Skin Irrit. 2; H315 Eye Dam. 1; H318	1.0532
Dodecylphenol, mixed isomers (branched)	74499-35-7	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Repr. 2; H361	0.1949

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

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Do not leave the victim unattended.

If inhaled : 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 : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Obtain medical attention.

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

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)

Suspected of damaging fertility or the unborn child.

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.

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.

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Water spray

Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

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 (NOx)

zinc oxide Sulphur oxides hydrogen sulfide mercaptans

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 : Use personal protective equipment.

Ensure adequate ventilation.

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.

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SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust.

Do not smoke.

Container hazardous when empty.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	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
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (<3 % DMSO EXTRACT)	64742-65-0	TWA	5 mg/m3 Mist	OSHA Z-1
·		TWA	5 mg/m3 Inhalable fraction	ACGIH

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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.
ZINC BIS[O-(6-	93819-94-4
METHYLHELPTYL)]BIS[O-	
SEC-	
BUTYL)]BIS(DITHIOPHOSPAT	
(E)	
Dodecylphenol, mixed isomers	74499-35-7
(branched)	

Engineering measures

: 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

In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

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).

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Wear as appropriate: Impervious clothing Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

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

No data available

Boiling point/boiling range : 392 °F / 200 °C

Calculated Phase Transition Liquid/Gas

Flash point : $> 390 \, ^{\circ}\text{F} / > 199 \, ^{\circ}\text{C}$

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 6 %(V)

GLP: Calculated Explosive Limit

Lower explosion limit : 1 %(V)

GLP: Calculated Explosive Limit

Vapour pressure : 1.3333333 hPa (20 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : 0.8556 (20 °C)

Density : No data available

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Solubility(ies)

Water solubility : insoluble

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 : 100 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

Strong oxidizing agents

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Hydrocarbons hydrogen sulfide Nitrogen oxides (NOx) Sulphur oxides

zinc oxide fumes mercaptans

SECTION 11. TOXICOLOGICAL INFORMATION

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Information on likely routes of : Inhalation

exposure

: Inhalation 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 (<3 % DMSO

EXTRACT):

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

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

ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL)]BIS(DITHIOPHOSPATE):

Acute oral toxicity : LD50 (Rat): 2,600 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

Method: OECD Test Guideline 402

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

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 (<3 % DMSO

EXTRACT):

Result: Slight, transient irritation

ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL)]BIS(DITHIOPHOSPATE):

Species: Guinea pig

Method: OECD Test Guideline 404

Result: Irritating to skin.

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

Dodecylphenol, mixed isomers (branched):

Result: Irritating to skin.

Serious eye damage/eye irritation

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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

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (<3 % DMSO

EXTRACT):

Result: Slight, transient irritation

ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL)]BIS(DITHIOPHOSPATE):

Species: Rabbit Result: Corrosive

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

Dodecylphenol, mixed isomers (branched):

Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC (<3 % DMSO

EXTRACT):

Genotoxicity in vitro : Test Type: Ames test

Result: negative

ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL)]BIS(DITHIOPHOSPATE):

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Genotoxicity in vivo : Test Type: Micronucleus test

Test species: Mouse

Method: OECD Test Guideline 474

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Carcinogenicity

Not classified based on available information.

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Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

Dodecylphenol, mixed isomers (branched):

Reproductive toxicity - : Some evidence of adverse effects on sexual function and fertility, and/or on development, 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.

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

Chronic aquatic toxicity : Chronic aquatic toxicity Category 3; Harmful to aquatic life

with long lasting effects.

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Components:

Distillates (Petroleum), Hydrotreated Heavy Paraffinic: 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

ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL)]BIS(DITHIOPHOSPATE):

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l

Exposure time: 96 h Test Type: semi-static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Daphnia magna)): 5.4 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 2.1 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Dodecylphenol, mixed isomers (branched):

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

Components:

ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL)]BIS(DITHIOPHOSPATE):

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 1.5 % Exposure time: 28 d

Method: OECD Test Guideline 301B

No data available

Bioaccumulative potential

Components:

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ZINC BIS[O-(6-METHYLHELPTYL)]BIS[O-SEC-BUTYL)]BIS(DITHIOPHOSPATE):

Partition coefficient: n- : log Pow: 0.59 - 1.2 (23 °C)

octanol/water

No data available
Mobility in soil
Components:
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.

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

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. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

U.S. DOT - ROAD

0.5. DOT - ROAD	
Not dangerous goods	

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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.

SECTION 15. REGULATORY INFORMATION

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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	500Ó	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : Chronic Health Hazard

SARA 313

ZINC BIS[O-(6- 93819-94-4 1.05 %

METHYLHELPTYL)]BIS[O

-SEC-

BUTYL) | BIS (DITHIOPHOS

PATE)

California Prop 65 WARNING: This product contains a chemical known to the

State of California to cause birth defects or other reproductive

harm.

ETHYLENE GLYCOL 107-21-1

TOLUENE 108-88-3

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

TSCA : On TSCA Inventory

Inventories

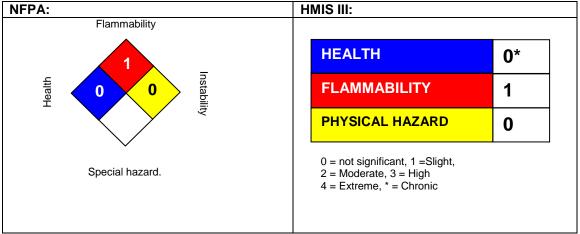
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

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SECTION 16. OTHER INFORMATION

Further information

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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.
H361	Suspected of damaging fertility or the unborn child.

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).

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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

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