

|                                                                                   |                           |
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| <b>SAFETY DATA SHEET</b>                                                          | Revision Date: 07/31/2016 |
|                                                                                   | Print Date: 11/1/2016     |
|                                                                                   | SDS Number: R0163802      |
| All-Fleet Plus™ SAE 30 ENGINE OIL<br>822404                                       | Version: 1.1              |

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : All-Fleet Plus™ SAE 30  
ENGINE OIL

### Recommended use of the chemical and restrictions on use

|                                                                                                                                                                                 |                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Details of the supplier of the safety data sheet</b><br><br>Valvoline LLC<br>3499 Blazer Parkway<br>Lexington, KY 40509<br>United States of America<br><br>SDS@valvoline.com | <b>Emergency telephone number</b><br>1-800-VALVOLINE<br><br><b>Regulatory Information Number</b><br>1-800-TEAMVAL<br><br><b>Product Information</b><br>1-800-TEAMVAL |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Eye irritation : Category 2A

### GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling.  
Wear eye protection/ face protection.  
**Response:**  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.

### Other hazards

|                                                                                   |  |                           |
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None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Defatter

#### Hazardous components

| Chemical Name                                                   | CAS-No.    | Classification                              | Concentration (%) |
|-----------------------------------------------------------------|------------|---------------------------------------------|-------------------|
| DISTILLATES (PETROLEUM),<br>SOLVENT-DEWAXED HEAVY<br>PARAFFINIC | 64742-65-0 | Asp. Tox. 1; H304                           | 1.12              |
| ZINC<br>DIALKYLDITHIOPHOSPHATE                                  | 93819-94-4 | Skin Irrit. 2; H315<br><br>Eye Dam. 1; H318 | 1.12              |

### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

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 : Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
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

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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:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Causes serious eye irritation.

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

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  
zinc oxide  
Sulphur oxides  
hydrogen sulfide  
mercaptans

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.

|                                                                                   |  |                           |
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## SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                           |                                                                                                                                                                  |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions,<br>protective equipment and<br>emergency procedures | : Use personal protective equipment.<br>Persons not wearing protective equipment should be excluded<br>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<br>containment and cleaning up                  | : Soak up with inert absorbent material (e.g. sand, silica gel,<br>acid binder, universal binder, sawdust).<br>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     | : Do not breathe vapours/dust.<br>Do not smoke.<br>Container hazardous when empty.<br>Avoid contact with skin and eyes.<br>Smoking, eating and drinking should be prohibited in the<br>application area.<br>For personal protection see section 8.<br>Dispose of rinse water in accordance with local and national<br>regulations. |
| Conditions for safe storage | : Keep container tightly closed in a dry and well-ventilated<br>place.<br>Electrical installations / working materials must comply with<br>the technological safety standards.                                                                                                                                                     |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| Components                                                      | CAS-No.    | Value type<br>(Form of<br>exposure) | Control<br>parameters /<br>Permissible<br>concentration | Basis       |
|-----------------------------------------------------------------|------------|-------------------------------------|---------------------------------------------------------|-------------|
| DISTILLATES (PETROLEUM),<br>SOLVENT-DEWAXED HEAVY<br>PARAFFINIC | 64742-65-0 | PEL                                 | 500 ppm<br>2,000 mg/m3                                  | OSHA_TRANS  |
|                                                                 |            | REL                                 | 5 mg/m3<br>Mist.                                        | NIOSH/GUIDE |
|                                                                 |            | STEL                                | 10 mg/m3<br>Mist.                                       | NIOSH/GUIDE |
|                                                                 |            | PEL                                 | 5 mg/m3                                                 | OSHA_TRANS  |

|                                                                                  |  |                           |
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|  |  |     |                        |     |
|--|--|-----|------------------------|-----|
|  |  |     | Mist.                  | NS  |
|  |  | TWA | 5 mg/m3<br>Mist.       | Z1A |
|  |  | TWA | 400 ppm<br>1,600 mg/m3 | Z1A |

**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

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection : Wear as appropriate:  
impervious clothing  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).

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

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 : 424.99 °F / 218.33 °C  
(1,013.333333 hPa)  
Calculated Phase Transition Liquid/Gas

Flash point : > 390 °F / > 199 °C  
Method: Cleveland open cup

|                                                                                   |  |                           |
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|                                        |                                                         |
|----------------------------------------|---------------------------------------------------------|
| Evaporation rate                       | : > 1<br>Ethyl Ether                                    |
| Flammability (solid, gas)              | : No data available                                     |
| Upper explosion limit                  | : No data available                                     |
| Lower explosion limit                  | : No data available                                     |
| Vapour pressure                        | : 0.0133333 hPa (37.78 °C)<br>Calculated Vapor Pressure |
| Relative vapour density                | : No data available                                     |
| Relative density                       | : 0.89 (15.6 °C)                                        |
| Density                                | : 0.8781 g/cm3 (15.6 °C)                                |
| Solubility(ies)                        |                                                         |
| Water solubility                       | : No data available                                     |
| Solubility in other solvents           | : No data available                                     |
| Partition coefficient: n-octanol/water | : No data available                                     |
| Thermal decomposition                  | :<br><br>No data available                              |
| Viscosity                              |                                                         |
| Viscosity, dynamic                     | : No data available                                     |
| Viscosity, kinematic                   | : No data available                                     |
| Oxidizing properties                   | : No data available                                     |

---

## SECTION 10. STABILITY AND REACTIVITY

|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| Reactivity                         | : No decomposition if stored and applied as directed. |
| Chemical stability                 | : Stable under recommended storage conditions.        |
| Possibility of hazardous reactions | : Product will not undergo hazardous polymerization.  |
| Conditions to avoid                | : excessive heat                                      |
| Incompatible materials             | : Strong oxidizing agents                             |

|                                                                                   |  |                           |
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Hazardous decomposition  
products

carbon dioxide and carbon monoxide  
hydrogen sulfide  
Sulphur oxides  
zinc oxide fumes  
mercaptans

## SECTION 11. TOXICOLOGICAL INFORMATION

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

### Acute toxicity

Not classified based on available information.

#### **Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 5,000 mg/kg

ZINC DIALKYLDITHIOPHOSPHATE:

Acute oral toxicity : LD 50 (Rat): 2,600 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

#### **Product:**

Remarks: May cause skin irritation in susceptible persons.

Result: Repeated exposure may cause skin dryness or cracking.

#### **Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Result: Mildly irritating to skin

ZINC DIALKYLDITHIOPHOSPHATE:

Result: Irritating to skin

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### **Product:**

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

#### **Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC:

Result: Mildly irritating to eyes

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ZINC DIALKYLDITHIOPHOSPHATE:

Result: Corrosive 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.

**Carcinogenicity**

Not classified based on available information.

**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.

**Components:**

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED 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.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

ZINC DIALKYLDITHIOPHOSPHATE:

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 : EC 50 (Water flea (Daphnia magna)): 5.4 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Test Type: static test



|                                                                                   |  |                           |
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Toxicity to algae : EC 50 (Selenastrum capricornutum (green algae)): 2.1 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test

#### Persistence and degradability

##### ZINC DIALKYLDITHIOPHOSPHATE:

Biodegradability : Biodegradation: 1.5 %  
Exposure time: 28 d  
Remarks: Not readily biodegradable.

#### Bioaccumulative potential

##### ZINC DIALKYLDITHIOPHOSPHATE:

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

#### Mobility in soil

No data available

#### Other adverse effects

No data available

#### Product:

Additional ecological information : No data available

---

## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

General advice : Do not dispose of waste into sewer.  
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.

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## SECTION 14. TRANSPORT INFORMATION

#### International transport regulations

#### REGULATION

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

**U.S. DOT - ROAD**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**CFR\_RAIL\_C**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**U.S. DOT - INLAND WATERWAYS**

|                     |
|---------------------|
| Not dangerous goods |
|                     |

**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 |
|------------------|----|

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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

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 313 Component(s)**

ZINC BIS[O-(6- 93819-94-4 1.12 %  
METHYLHELPTYL)]BIS[O  
-SEC-  
BUTYL)]BIS(DITHIOPHOS  
PATE)

**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.

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

NZIOC : Not in compliance with the inventory

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

KECL : 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

**Inventories**

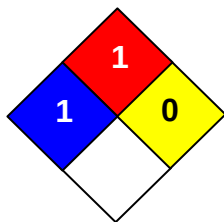
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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## SECTION 16. OTHER INFORMATION

### Further information

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| NFPA:                                                                                                                                                                                                                                                                                                                                                                                                                                                   | HMIS III:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |          |                     |          |                        |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|---------------------|----------|------------------------|----------|
| <p style="text-align: center;">Flammability</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); margin-right: 10px;">Health</div>  <div style="writing-mode: vertical-rl; margin-left: 10px;">Instability</div> </div> <p style="text-align: center;">Special hazard.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: blue; color: white; text-align: center;"><b>HEALTH</b></td><td style="text-align: center;"><b>2</b></td></tr> <tr> <td style="background-color: red; color: white; text-align: center;"><b>FLAMMABILITY</b></td><td style="text-align: center;"><b>1</b></td></tr> <tr> <td style="background-color: yellow; text-align: center;"><b>PHYSICAL HAZARD</b></td><td style="text-align: center;"><b>0</b></td></tr> </table> <p style="font-size: small;">0 = not significant, 1 = Slight,<br/>2 = Moderate, 3 = High<br/>4 = Extreme, * = Chronic</p> | <b>HEALTH</b> | <b>2</b> | <b>FLAMMABILITY</b> | <b>1</b> | <b>PHYSICAL HAZARD</b> | <b>0</b> |
| <b>HEALTH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |          |                     |          |                        |          |
| <b>FLAMMABILITY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |          |                     |          |                        |          |
| <b>PHYSICAL HAZARD</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>0</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |          |                     |          |                        |          |

### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

### Full text of H-Statements referred to under sections 2 and 3.

|      |                                               |
|------|-----------------------------------------------|
| 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 (1-800-825-8654).

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.

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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