

Zerex™ HYBRID VEHICLE ANTIFREEZE/COOLANT Antifreeze Coolant

ersion: 1.6	Revision Date:	01/04/2022	Print Date: 02/10/2023
OCFR 1910.1200 (OSHA Ha ECTION 1. PRODUCT AND		FICATION	
<b>Product identifier</b> Trade name		HYBRID VEHICLE ANTIFREEZE ze Coolant	/COOLANT
Product code	: 898406		
Details of the supplier o	f the safety data	Emergency telephone numbe	r
sheet Valvoline LLC	The safety data	1-800-VALVOLINE (1-800-825-	
100 Valvoline Way Lexington, KY 40509 United States of America	(USA)	Regulatory Information Numb 1-800-TEAMVAL (1-800-832-68	
1-800-TEAMVAL (1-800-8		Product Information 1-800-TEAMVAL (1-800-832-68	325)
SDS@valvoline.com			

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Acute toxicity (Oral)	: Category 4
Specific target organ toxicity - repeated exposure (Oral)	: Category 2 (Kidney, Liver)
GHS label elements Hazard pictograms	
Signal Word	: Warning
Hazard Statements	: Harmful if swallowed. May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure if swallowed.



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Precautionary Statements	<ul> <li>Prevention: Do not breathe mist or vapors. Wash skin thoroughly after handling. Do not eat, drink or smoke when using th Response: IF SWALLOWED: Call a POISON CENT unwell. Rinse mouth. Get medical advice/ attention if you feel of Disposal: Dispose of contents/ container to an app plant.</li> </ul>	ER/ doctor if you feel
Other hazards None known.		

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
---------------------	---	---------

#### Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
ETHYLENE GLYCOL	107-21-1	Acute Tox. 4; H302	>=40.00 - < 50.00
		STOT RE 2; H373	
		,	
DIPOTASSIUM PHOSPHATE	7758-11-4	Acute Tox. 3; H311	>=0.10 - < 0.50
		,	

Actual concentration is withheld as a trade secret

# 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	<ul> <li>If unconscious, place in recovery position and seek medical advice.</li> <li>If symptoms persist, call a physician.</li> </ul>
In case of eye contact	<ul> <li>Flush eyes with water as a precaution.</li> <li>Remove contact lenses.</li> <li>Protect unharmed eye.</li> <li>Keep eye wide open while rinsing.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>



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If swallowed	<ul> <li>Induce vomiting immediately and call a physician.</li> <li>Keep respiratory tract clear.</li> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious plf symptoms persist, call a physician.</li> <li>Take victim immediately to hospital.</li> </ul>	person.
Most important symptoms and effects, both acute and delayed	<ul> <li>Harmful if swallowed.</li> <li>May cause damage to organs through prolonged of exposure if swallowed.</li> <li>No symptoms known or expected.</li> </ul>	or repeated
Notes to physician	: No hazards which require special first aid measure	es.
	Treat symptomatically.	

# SECTION 5. FIREFIGHTING MEASURES

Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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.



Version: 1.6 Revision Date: 01/04/2022 Print Date: 02/10/2023 **SECTION 7. HANDLING AND STORAGE** Advice on safe handling : Do not breathe vapours/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. 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. Electrical installations / working materials must comply with the technological safety standards.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
ETHYLENE GLYCOL	107-21-1	TWA	25 ppm	ACGIH
			Vapour	
		STEL	50 ppm	ACGIH
			Vapour	
		STEL	10 mg/m3	ACGIH
			Inhalable fraction,	
			Aerosol only	
		С	50 ppm	OSHA P0
			125 mg/m3	
		С	40 ppm	CAL PEL
			100 mg/m3	
			Vapour	
Personal protective equipr	nent	•	• •	•

#### Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally required.
Hand protection Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.



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Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workda	ay.
ECTION 9. PHYSICAL AND CH	EMIC	CAL PROPERTIES	
Appearance	:	liquid	
Odour	:	No data available	
Odour Threshold	:	No data available	
рН	:	9.0	
Melting point/freezing point	:	No data available	
Boiling point/boiling range	:	No data available	
Flash point	:	> 250 °F / > 121 °C	
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	:	No data available	
Relative vapour density	:	No data available	
Relative density	:	No data available	
Density	:	1.076 g/cm3 (60.1 °F / 15.6 °C)	
Solubility(ies) Water solubility	:	soluble	
Solubility in other solvents	:	No data available	



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Partition coefficient: n- octanol/water	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Oxidizing properties	: No data available	
SECTION 10. STABILITY AND R	EACTIVITY	
Reactivity	: No decomposition if stored and applied as directe	d.
Chemical stability	: No decomposition if stored and applied as directe	d.
Possibility of hazardous reactions	: No decomposition if stored and applied as directe	d.
Conditions to avoid	: excessive heat	
Incompatible materials	: Aldehydes Alkali metals Alkaline earth metals Strong acids strong alkalis Strong bases Strong oxidizing agents	

Hazardous decomposition<br/>productsNo hazardous decomposition products are known.

Sulphur compounds

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity Harmful if swallowed. Product:		
Acute oral toxicity	:	Acute toxicity estimate: 1,075 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method



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<u>Components:</u> ETHYLENE GLYCOL: Acute oral toxicity	:	LD0 (Human): estimated 1.56 g/kg	
		Assessment: The component/mixture is moderately single ingestion.	toxic after
Acute inhalation toxicity	:	LC50 (Rat): 10.9 mg/l Exposure time: 1 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acur inhalation toxicity	e
Acute dermal toxicity	:	LD50 (Rabbit): 9,530 mg/kg	
Acute toxicity (other routes of administration)	:	LD50 (Rat): 5,010 mg/kg Application Route: Intraperitoneal	
		LD50 (Rat): 3,260 mg/kg Application Route: Intravenous	
DIPOTASSIUM PHOSPHATE Acute oral toxicity	<b>=:</b> :	LD50 (Rat): > 500 mg/kg	
		LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acut toxicity	e oral
Acute dermal toxicity	:	LD50 (Rabbit): > 300 mg/kg	
		LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402	
Skin corrosion/irritation Not classified based on availa Components:	ble	information.	
ETHYLENE GLYCOL: Species Result	:	Rabbit No skin irritation	
DIPOTASSIUM PHOSPHATE Species Result	<b>≣:</b> : :	Rabbit Slight, transient irritation	
Serious eye damage/eye irri Not classified based on availa <u>Components:</u>			
ETHYLENE GLYCOL: Result	:	Slight, transient irritation	



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Species	PHOSPHATE:	Rabbit	
Result	:	Slight, transient irritation	
Skin sensitisat Not classified b	ased on available		
	ensitisation ased on available	e information.	
<u>Components:</u> ETHYLENE GL	YCOL:		
Test Type Species	:	Maximisation Test Guinea pig	
Assessment	:	Does not cause skin sensitisation.	
DIPOTASSIUM	PHOSPHATE:		
Test Type Species Assessment Method Remarks		Local lymph node assay Mouse Did not cause sensitisation on laboratory animals. OECD Test Guideline 429 The toxicological data has been taken from products composition.	s of similar
Germ cell muta Not classified b <u>Components:</u> ETHYLENE GL	ased on available	e information.	
Genotoxicity in		Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic acti Result: negative	vation
DIPOTASSIUM	PHOSPHATE:		
Genotoxicity in	vitro :	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic acti Method: OECD Test Guideline 471 Result: negative Remarks: The toxicological data has been taken from products of similar composition.	
Carcinogenicit			
Not classified b IARC		e information. f this product present at levels greater than or equal to pable, possible or confirmed human carcinogen by IAR	
OSHA	<b>OSHA</b> No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.		



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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.				
STOT - single Not classified STOT - repea	based on availate exposure based on availated exposure inted exposure image to organs <u>:</u> SLYCOL: tes	able information. able information. s (Kidney, Liver) through prolonged or repeated expos : Ingestion : Kidney, Liver : May cause damage to organs through prolonged			
Aspiration to Not classified		exposure. able information.			
Experience y	vith human exp	Nosura			
Components	<u>.</u>	Josure			
ETHYLENE C	BLYCOL:	: Target Organs: Kidney			
Ingestion		. Target organe. Haney			
Further infor	mation				
Further infor Product:	mation				
Further infor	mation	: No data available			
Further infor Product: Remarks	mation	: No data available			
Further inform Product: Remarks		: No data available			
Further inform Product: Remarks CTION 12. ECC Ecotoxicity Product:	DLOGICAL INF	: No data available			
Further inform Product: Remarks CTION 12. ECC Ecotoxicity Product: Ecotoxicology	DLOGICAL INF	: No data available ORMATION			
Further inform Product: Remarks CTION 12. ECC Ecotoxicity Product:	DLOGICAL INF	: No data available			
Further inform Product: Remarks CTION 12. ECC Ecotoxicity Product: Ecotoxicology Short-term (ac hazard	DLOGICAL INF	<ul> <li>No data available</li> <li>ORMATION</li> <li>: Not classified based on available information.</li> </ul>			
Further inform Product: Remarks CTION 12. ECC Ecotoxicity Product: Ecotoxicology Short-term (ac hazard	DLOGICAL INF	: No data available ORMATION			
Further inform Product: Remarks CTION 12. ECC Ecotoxicity Product: Ecotoxicology Short-term (acc hazard Long-term (ch hazard	Assessment cute) aquatic	<ul> <li>No data available</li> <li>ORMATION</li> <li>: Not classified based on available information.</li> </ul>			
Further inform Product: Remarks CTION 12. ECC Ecotoxicity Product: Ecotoxicology Short-term (act hazard Long-term (ch hazard Components	Assessment cute) aquatic nronic) aquatic	<ul> <li>No data available</li> <li>ORMATION</li> <li>: Not classified based on available information.</li> </ul>			
Further inform Product: Remarks CTION 12. ECC Ecotoxicity Product: Ecotoxicology Short-term (acc hazard Long-term (ch hazard	DLOGICAL INF Assessment cute) aquatic aronic) aquatic <u>:</u> GLYCOL:	<ul> <li>No data available</li> <li>ORMATION</li> <li>: Not classified based on available information.</li> </ul>	27,540 mg/l		



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Toxicity to daphnia and other aquatic invertebrates	E	_C50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Fest Type: static test	
Toxicity to algae	Ē	EC50 (Pseudokirchneriella subcapitata (green algae) 13,000 mg/l End point: Growth inhibition Exposure time: 7 Days	): 6,500 -
Toxicity to fish (Chronic toxicity)		NOEC (Pimephales promelas (fathead minnow)): 32, Exposure time: 7 d	000 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)		NOEC (Daphnia magna (Water flea)): 24,000 mg/l Exposure time: 7 d	
Ecotoxicology Assessment Short-term (acute) aquatic hazard	: 1	Not classified based on available information.	
Long-term (chronic) aquatic hazard	: 1	Not classified based on available information.	
DIPOTASSIUM PHOSPHATE: Toxicity to fish	: L - - - - -	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 r Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 Remarks: The toxicological data has been taken from products of similar composition.	-
Toxicity to daphnia and other aquatic invertebrates	ן - ן	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Fest Type: static test Method: OECD Test Guideline 202 Remarks: The toxicological data has been taken from products of similar composition.	I
Toxicity to algae	  -   	EC50 (Desmodesmus subspicatus (green algae)): > End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 Remarks: The toxicological data has been taken from products of similar composition.	
	E	NOEC (Desmodesmus subspicatus (green algae)): > End point: Growth inhibition Exposure time: 72 h Fest Type: static test	100 mg/l



# **SAFETY DATA SHEET**

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	Method: OECD Test Guideline 201 Remarks: The toxicological data has been taken fro products of similar composition.	om
Persistence and degradabilit <u>Components:</u> ETHYLENE GLYCOL: Biodegradability	y : Result: Readily biodegradable. Biodegradation: 90 - 100 % Exposure time: 10 d Method: OECD Test Guideline 301	
DIPOTASSIUM PHOSPHATE: Biodegradability	: Remarks: The methods for determining biodegrada not applicable to inorganic substances.	bility are
No data available <b>Bioaccumulative potential</b> <u>Components:</u> ETHYLENE GLYCOL: Bioaccumulation	: Species: Crayfish (Procambarus) Bioconcentration factor (BCF): 0.27 Exposure time: 61 d Concentration: 1000 mg/l Method: Flow through	
Partition coefficient: n- octanol/water	: log Pow: -1.36	
No data available <b>Mobility in soil</b> <u>Components:</u> No data available <u>Other adverse effects</u> No data available <u>Product:</u> Regulation	40 CFR Protection of Environment; Part 82 Protect	ion of
Remarks	Stratospheric Ozone - CAA Section 602 Class I Su This product neither contains, nor was manufacture Class I or Class II ODS as defined by the U.S. Clea Section 602 (40 CFR 82, Subpt. A, App.A + B).	bstances ed with a
Additional ecological information	: No data available	
Components:		

**SECTION 13. DISPOSAL CONSIDERATIONS** 



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Disposal methods		
General advice	<ul> <li>Do not dispose of waste into sewer.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Send to a licensed waste management company.</li> </ul>	th
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.	

#### **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.

#### **National Regulations**

#### CFR\_ROAD

Not regulated as a dangerous good

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**

#### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
TOLUENE	108-88-3	100	100 (F005)

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.



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SARA 302 Extremely Haz	ardou	is Substances T	Threshold Planning	g Quantity
This material does not cont	ain ar	ny components w	vith a section 302 El	HS TPQ.
SARA 311/312 Hazards	:		any route of exposu organ toxicity (sing	ure) le or repeated exposure)
SARA 313		•	components are sub SARA Title III, Sec	pject to reporting levels tion 313:
		ETHYLENE GLYCOL	107-21-1	>= 30 - < 50 %

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

ETHYLENE GLYCOL107-21-1>= 30 - < 50 %</th>This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for<br/>Accidental Release Prevention (40 CFR 68.130, Subpart F).<br/>The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI<br/>Intermediate or Final VOC's (40 CFR 60.489):<br/>ETHYLENE GLYCOL>= 30 - < 50 %</td>

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

ADIPIC ACID	124-04-9	>= 0.1 - < 1 %
TOLUENE	108-88-3	>= 0 - < 0.1 %
following Hazardous C	Chemicals are listed under the U.S.	CleanWater Act, Section 311, Table

The following Hazardous Chem	icals are listed under the U	.S. CleanWater Act, Section 311, Table
117.3:		
ADIPIC ACID	124-04-9	>= 0.1 - < 1 %
TOLUENE	108-88-3	>= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

The components of this prod TCSI	duc :	<b>t are reported in the following inventories:</b> On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	Not in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory



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PICCS	: On the inventory, or in compliance with the inventory	
IECSC	: On the inventory, or in compliance with the inventory	
NZIoC	: Not in compliance with the inventory	
TECI	: Not in compliance with the inventory	

### **TSCA** list

No substances are subject to a Significant New Use Rule.

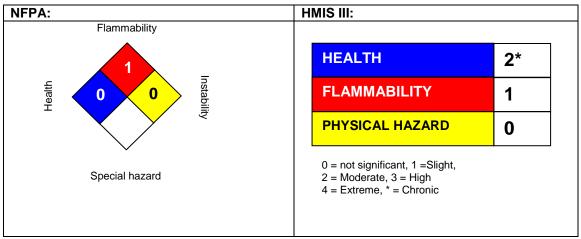
No substances are subject to TSCA 12(b) export notification requirements. **Inventories** 

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

## **SECTION 16. OTHER INFORMATION**

#### **Further information**

Internal information : 000000248245



NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

Full text of H	Statements
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure
	if swallowed.



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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

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



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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