

# SAFETY DATA SHEETRevision Date: 05/22/2017Print Date: 6/2/2017Print Date: 6/2/2017SDS Number: R0296913SDS Number: R0296913Zerex™ RADIATOR SUPER PROTECTOR & WATER PUMP<br/>LUBRICANTVersion: 1.2ZXC04Version

# 29 CFR 1910.1200 (OSHA HazCom 2012) SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

:

# **Product identifier**

Trade name

Zerex™ RADIATOR SUPER PROTECTOR & WATER PUMP LUBRICANT

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-VALVOLINE (1-800-825-8654)
Valvoline LLC	
100 Valvoline Way	Regulatory Information Number
Lexington, KY 40509	1-800-TEAMVAL
United States of America (USA)	
1-800-TEAMVAL	Product Information
	1-800-TEAMVAL

# **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Skin irritation	: Category 2
Eye irritation	: Category 2A
Skin sensitization	: Category 1
GHS label elements Hazard pictograms	
Signal Word	: Warning
Hazard Statements	<ul> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> </ul>
Precautionary Statements	: <b>Prevention:</b> Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.



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Wear protective gloves/ eye protection/ face protection.

# Response:

IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse. **Disposal:** 

Dispose of contents/ container to an approved waste disposal plant.

# Other hazards

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None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

# Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
SODIUM NITRATE	7631-99-4	Ox. Sol. 3; H272	2.0496
		Eye Irrit. 2A; H319	
SODIUM MERCAPTOBENZOTHIAZOLE	2492-26-4	Met. Corr. 1; H290	1.0555
		Skin Corr. 1C; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	

# SECTION 4. FIRST AID MEASURES

General advice	<ul> <li>Move out of dangerous area.</li> <li>Show this safety data sheet to the doctor in attendance.</li> <li>Do not leave the victim unattended.</li> </ul>
If inhaled	: If breathed in, move person into fresh air. If unconscious, place in recovery position and seek medical advice.



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In case of skin contact	<ul> <li>Remove contaminated clothing. If irritation develops, get medical attention.</li> <li>If on skin, rinse well with water.</li> <li>Wash contaminated clothing before re-use.</li> </ul>	
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.	
If swallowed	<ul> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>If symptoms persist, call a physician.</li> </ul>	
Most important symptoms and effects, both acute and delayed	<ul> <li>Overexposure to this product (or a component) may cause methemoglobinemia, which in sufficient concentration causes cyanosis. Severe cyanosis may require intravenous injection of methylene blue. Methylene blue is contraindicated if the patient has confirmed or suspected glucose-6-phosphate dehydrogenase deficiency.</li> <li>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) Cough cyanosis (causes blue coloring of the skin and nails from lack of oxygen) methemoglobinemia (blood abnormality which causes a blue coloring to the skin) Convulsions Difficulty in breathing Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.</li> </ul>	١
Notes to physician	: No hazards which require special first aid measures.	

# **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	<ul> <li>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</li> <li>Water spray</li> <li>Foam</li> <li>Carbon dioxide (CO2)</li> <li>Dry chemical</li> </ul>
Linewitchie ovtinguiching	Lligh volume water ist



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media	
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	<ul> <li>Nitrogen oxides (NOx) carbon dioxide and carbon monoxide Oxides of phosphorus potassium oxide Sulphur oxides nitrogen oxides (NOx)</li> </ul>
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	Jse personal protective equipment. Persons not wearing protective equipment shou rom area of spill until clean-up has been comple	
Environmental precautions	Prevent product from entering drains. Prevent further leakage or spillage if safe to do s f the product contaminates rivers and lakes or c espective authorities.	
Methods and materials for containment and cleaning up	Keep in suitable, closed containers for disposal.	
Other information	Comply with all applicable federal, state, and loc	al regulations.

# SECTION 7. HANDLING AND STORAGE



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	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	<ul> <li>Keep container tightly closed in a dry and well-ventilated place.</li> <li>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</li> </ul>

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Hazardous components without workplace control parameters

Tiazaruous components withou	ut workplace co	
Components	CAS-No.	
SODIUM NITRATE	7631-99-4	
SODIUM	2492-26-4	
MERCAPTOBENZOTHIAZOLE		
Engineering measures	ventilation to	ient mechanical (general and/or local exhaust) maintain exposure below exposure guidelines (if below levels that cause known, suspected or erse effects.
Personal protective equipment	t	
Respiratory protection :		rotection is not required under normal conditions
Hand protection Material :	neoprene	
Remarks		ofor a specific workplace should be discussed ucers of the protective gloves.
Eye protection		al splash goggles when there is the potential for he eyes to liquid, vapor or mist.
Skin and body protection		



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Discard gloves that show tears, pinholes, or signs of wear. 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
Odour	: No data available
Odour Threshold	: No data available
рН	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: 212 °F / 100 °C (1,013.333333 hPa) Calculated Phase Transition Liquid/Gas
Flash point	: Not applicable
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	: 32 hPa (25 °C) Calculated Vapor Pressure
Relative vapour density	: No data available
Relative density	: 1.036 (60.00 °F)
Density	: 1.036 g/cm3 (60.00 °F)
Solubility(ies) Water solubility	: completely soluble
Solubility in other solvents	: No data available



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# Partition coefficient: n-<br/>octanol/water : No data available Thermal decomposition : No data available Viscosity<br/>Viscosity, dynamic : No data available Viscosity, kinematic : No data available Oxidizing properties : The substance or mixture is not classified as oxidizing.

# 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 Exposure to moisture
Incompatible materials	: Combustible material Heavy metals Organic materials Powdered metals Reducing agents Strong acids Strong oxidizing agents water
Hazardous decomposition products	May form: carbon dioxide and carbon monoxide Nitrogen oxides (NOx) Sulphur oxides nitrogen oxides

# SECTION 11. TOXICOLOGICAL INFORMATION

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



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Acute toxicity Not classified based on availa <u>Components:</u> SODIUM NITRATE: Acute oral toxicity	able information. : LD50 (Rat): ca. 3,430 mg/kg Method: OECD Test Guideline 401
SODIUM MERCAPTOBENZ	DTHIAZOLE: : LD50 (Rat): 2,100 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 6.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rabbit): > 7,940 mg/kg
<b>Skin corrosion/irritation</b> Causes skin irritation. <u>Product:</u> Remarks: May cause skin irri	tation and/or dermatitis.
<u>Components:</u> SODIUM NITRATE: Species: Rabbit Method: OECD Test Guidelin Result: No skin irritation Remarks: Information given is	e 404 s based on data obtained from similar substances.

SODIUM MERCAPTOBENZOTHIAZOLE: Species: Rabbit Result: Corrosive after 1 to 4 hours of exposure

# 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:

SODIUM NITRATE: Species: Rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405

SODIUM MERCAPTOBENZOTHIAZOLE: Species: Rabbit Result: Corrosive



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Respiratory or skin sensitisation Skin sensitisation: May cause an all Respiratory sensitisation: Not classi <u>Components:</u> SODIUM MERCAPTOBENZOTHIA Test Type: Maximisation Test Species: Guinea pig Assessment: May cause sensitisation Method: OECD Test Guideline 406	fied based on available information. ZOLE:
, ,	
Genotoxicity in vivo : T T R R	Result: negative Test Type: In vivo micronucleus test Test species: Mouse Result: negative Remarks: Information given is based on data obtained from
S Carcinogenicity Not classified based on available inf Reproductive toxicity Not classified based on available inf STOT - single exposure Not classified based on available inf	formation.

Not classified based on available information. **STOT - repeated exposure** Not classified based on available information. **Aspiration toxicity** Not classified based on available information. **Further information** <u>Product:</u> Remarks: No data available

# **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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SODIUM NITRATE: Toxicity to fish		LC50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 1,355 - 2,063 mg/l Exposure time: 96 h Method: Static Remarks: Mortality
Toxicity to daphnia and other aquatic invertebrates		LC50 (Water flea (Daphnia magna)): 3,581 mg/l Exposure time: 48 h Method: Static Remarks: Mortality
SODIUM MERCAPTOBENZO Toxicity to fish	:	AZOLE: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.73 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203 Remarks: Information given is based on data obtained from similar substances.
	I	LC50 (Bluegill (Lepomis macrochirus)): 3.8 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	-	EC50 (Water flea (Daphnia magna)): 19 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	I	IC50 (Pseudokirchneriella subcapitata (green algae)): 0.3 mg/l Exposure time: 96 h Method: OECD Test Guideline 201
		ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.5 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Information given is based on data obtained from similar substances.
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0.066 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Information given is based on data obtained from similar substances.
Toxicity to fish (Chronic toxicity)	l	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.041 mg/l Exposure time: 89 d End point: Growth rate



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	Test Type: flow-through test Method: OECD Test Guideline 210 Remarks: Information given is based on data obtained fror similar substances.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<ul> <li>NOEC (Daphnia magna (Water flea)): 0.08 mg/l Exposure time: 21 d</li> <li>End point: Reproduction Test</li> <li>Method: OECD Test Guideline 211</li> <li>Remarks: Information given is based on data obtained fror similar substances.</li> </ul>
Persistence and degradability	
Components:	
SODIUM MERCAPTOBENZOTI Biodegradability	<ul> <li>HIAZOLE:</li> <li>Result: Not readily biodegradable.</li> <li>Remarks: Information given is based on data obtained fror similar substances.</li> </ul>
No data available	
Bioaccumulative potential Components: SODIUM MERCAPTOBENZOTI	
•	HIAZOLE: : Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): < 8 Exposure time: 6 Weeks Concentration: 0.01 mg/l Remarks: Information given is based on data obtained fror similar substances.
Components: SODIUM MERCAPTOBENZOTI Bioaccumulation	<ul> <li>Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): &lt; 8 Exposure time: 6 Weeks Concentration: 0.01 mg/l Remarks: Information given is based on data obtained fror</li> </ul>
Components: SODIUM MERCAPTOBENZOTI Bioaccumulation Partition coefficient: n- octanol/water No data available Mobility in soil Components: No data available	<ul> <li>Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): &lt; 8 Exposure time: 6 Weeks Concentration: 0.01 mg/l Remarks: Information given is based on data obtained fror similar substances.</li> <li>log Pow: 2.42</li> </ul>
Components: SODIUM MERCAPTOBENZOTI Bioaccumulation Partition coefficient: n- octanol/water No data available Mobility in soil Components: No data available Other adverse effects	<ul> <li>Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): &lt; 8 Exposure time: 6 Weeks Concentration: 0.01 mg/l Remarks: Information given is based on data obtained fror similar substances.</li> <li>log Pow: 2.42</li> </ul>
Components: SODIUM MERCAPTOBENZOTI Bioaccumulation Partition coefficient: n- octanol/water No data available Mobility in soil Components: No data available Other adverse effects No data available	<ul> <li>Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): &lt; 8 Exposure time: 6 Weeks Concentration: 0.01 mg/l Remarks: Information given is based on data obtained fror similar substances.</li> <li>log Pow: 2.42</li> </ul>
Components: SODIUM MERCAPTOBENZOTI Bioaccumulation Partition coefficient: n- octanol/water No data available Mobility in soil Components: No data available Other adverse effects No data available Product:	<ul> <li>Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): &lt; 8 Exposure time: 6 Weeks Concentration: 0.01 mg/l Remarks: Information given is based on data obtained fror similar substances.</li> <li>log Pow: 2.42 pH: 7</li> </ul>
Components: SODIUM MERCAPTOBENZOTI Bioaccumulation Partition coefficient: n- octanol/water No data available Mobility in soil Components: No data available Other adverse effects No data available Product:	<ul> <li>Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): &lt; 8 Exposure time: 6 Weeks Concentration: 0.01 mg/l Remarks: Information given is based on data obtained fror similar substances.</li> <li>log Pow: 2.42 pH: 7</li> <li>An environmental hazard cannot be excluded in the event unprofessional handling or disposal., Harmful to aquatic life</li> </ul>
Components: SODIUM MERCAPTOBENZOTI Bioaccumulation Partition coefficient: n- octanol/water No data available Mobility in soil Components: No data available Other adverse effects No data available Product: Additional ecological	<ul> <li>Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): &lt; 8 Exposure time: 6 Weeks Concentration: 0.01 mg/l Remarks: Information given is based on data obtained fror similar substances.</li> <li>log Pow: 2.42 pH: 7</li> <li>An environmental hazard cannot be excluded in the event</li> </ul>

# Disposal methods

General advice

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



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	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

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

# U.S. DOT - ROAD

N	ot 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



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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**

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

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
SODIUM HYDROXIDE	1310-73-2	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards	Acute Health Hazard	
SARA 313	SODIUM NITRATE	7631-99-4 2.04 %
California Prop 65	Proposition 65 warnings are based on the results of a ris	e not required for this product sk assessment
The components of this produce	ct are reported in the follow	ing inventories:
DSL :	All components of this prod	uct are on the Canadian DSL
AICS :	On the inventory, or in com	pliance with the inventory



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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)

# SECTION 16. OTHER INFORMATION

# Further information

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NFPA Flammable and Combustible Liquids Classification Not applicable

# Full text of H-Statements

H272	May intensify fire; oxidizer.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.



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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.

 $\ensuremath{\mathsf{ICxx}}$  : 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



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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