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SAFETY DATA SHEET	Revision Date: 09/07/2018
	Print Date: 10/29/2018
	SDS Number: R0076416
Valvoline [™] Multi-Vehicle Multi-Purpose Grease [™] Trademark, Valvoline or its subsidiaries, registered in various countries	Version: 1.3
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29 CFR 1910.1200 (OSHA HazCom 2012) SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

:

Product identifier

Trade name

Valvoline[™] Multi-Vehicle Multi-Purpose Grease

™ Trademark, Valvoline or its subsidiaries, registered in various countries

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)
SDS@valvoline.com	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 72.4997 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED		This material is not considered hazardous under the OSHA	>=50.00 - < 60.00
		Hazard Communication	



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		Standard (HazCom 2012).	
Distillates (petroleum), solvent- dewaxed heavy paraffinic	64742-65-0	Not a hazardous substance or mixture.	>=50.00 - < 60.00
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT	64742-52-5	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>=5.00 - < 10.00
MOLYBDENUM DISULFIDE	1317-33-5	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>=1.50 - < 5.00

SECTION 4. FIRST AID MEASURES

General advice	: No hazards which require special first aid measures.	
lf inhaled	 If breathed in, move person into fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. 	
In case of skin contact	: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.	
In case of eye contact	: Remove contact lenses. Protect unharmed eye.	
If swallowed	 Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. 	
Most important symptoms and effects, both acute and delayed	: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs	of s

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	 (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)
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 (CO2) Dry chemical
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	carbon dioxide and carbon monoxide Hydrocarbons Aldehydes Ketones Nitrogen oxides (NOx) Sulphur oxides
Specific extinguishing methods	:	
		Product is compatible with standard fire-fighting agents.
Further information	:	Standard procedure for chemical fires.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal precautions, protective equipment and emergency procedures	Persons not wearing protective equipment should b from area of spill until clean-up has been completed	
Environmental precautions	Prevent further leakage or spillage if safe to do so.	
Methods and materials for containment and cleaning up	Soak up with inert absorbent material (e.g. sand, si acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.	lica gel,
Other information	Comply with all applicable federal, state, and local	egulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.
Materials to avoid	: No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible	Basis
		exposure)	concentration	
RESIDUAL OILS (PETROLEUM), SOLVENT- REFINED	64742-01-4	ST ESL	1,000 µg/m3	TX ESL
		AN ESL	100 µg/m3	TX ESL
Distillates (petroleum), solvent- dewaxed heavy paraffinic	64742-65-0	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), HYDROTREATED HEAVY	64742-52-5	TWA	5 mg/m3 Mist	OSHA Z-1



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NAPHT				
		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
MOLYBDENUM DISULFIDE	1317-33-5	TWA	15 mg/m3 total dust (Molybdenum)	OSHA Z-1
		TWA	10 mg/m3 Inhalable fraction (Molybdenum)	ACGIH
		TWA	3 mg/m3 Respirable fraction (Molybdenum)	ACGIH
		TWA	10 mg/m3 Total dust (Molybdenum)	OSHA P0
		PEL	10 mg/m3 Total dust (Molybdenum)	CAL PEL
		PEL	3 mg/m3 respirable dust fraction (Molybdenum)	CAL PEL
Engineering measures	conditions of exist, provid exhaust) ver guidelines (it	f use. Howeve e sufficient me ntilation to mai	should be adequate for n er, if unusual operating o echanical (general and/o intain exposure below ex r below levels that cause verse effects.	conditions r local «posure

Personal	protective	equipment
----------	------------	-----------

Respiratory protection	:	No personal respiratory protective equipment normally required.
Eye protection	:	Not required under normal conditions of use. Wear splash- proof safety goggles if material could be misted or splashed into eyes.
Skin and body protection	:	Wear as appropriate: Safety shoes



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Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Physical state	: liquid
Colour	: grey
Odour	: hydrocarbon-like
Odour Threshold	: No data available
рН	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: 640 °F / 338 °C
Flash point	: 500 °F / 260 °C
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	:
	No data available
Relative vapour density	:
	No data available
Relative density	: No data available
Density	: 0.94 g/cm3 (20 °C)

Solubility(ies)



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Water solubility	: negligible
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: > 315 °C
Thermal decomposition	: No data available
Viscosity Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 20.5 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	: None known.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	carbon dioxide and carbon monoxide Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes o	f exposure
Inhalation	
Skin contact	
Eye Contact	
Ingestion	
Acute toxicity	
Not classified based on available	le information.
Product:	
Acute oral toxicity	: LD50 (Rat): 6,477 mg/kg



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		Method: Acute toxicity estimate
Acute dermal toxicity	:	LD50 (Rabbit): 169,492 mg/kg Method: Acute toxicity estimate
Components:		
RESIDUAL OILS (PETROLE) Acute oral toxicity), SOLVENT-REFINED: LD50 (Rat): > 5,000 mg/kg Remarks: Information given is based on data obtained from similar substances.
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: Not classified as acutely toxic by inhalation under GHS. Remarks: No mortality observed at this dose.
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402 Assessment: No adverse effect has been observed in acute dermal toxicity tests.
Distillates (petroleum), solve Acute oral toxicity	ent :	-dewaxed heavy paraffinic: LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg
DISTILLATES (PETROLEUM	I), F	IYDROTREATED HEAVY NAPHT:
Acute oral toxicity	:	LD50 (Rat): > 5 g/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: Not classified as acutely toxic by inhalation under GHS.
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: Not classified as acutely toxic by dermal absorption under GHS. Remarks: No mortality observed at this dose.
MOLYBDENUM DISULFIDE: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 2.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist



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Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Skin corrosion/irritation Not classified based on availab <u>Components:</u> RESIDUAL OILS (PETROLEU Species Result	
Distillates (petroleum), solve Result	nt-dewaxed heavy paraffinic: : Slight, transient irritation
DISTILLATES (PETROLEUM) Species Result	, HYDROTREATED HEAVY NAPHT: : Rabbit : No skin irritation
MOLYBDENUM DISULFIDE: Result	: No skin irritation
Serious eye damage/eye irrita Not classified based on availab <u>Product:</u> Remarks	
<u>Components:</u> RESIDUAL OILS (PETROLEU Species Result	M), SOLVENT-REFINED: : Rabbit : Slight, transient irritation
Distillates (petroleum), solve Result Assessment	nt-dewaxed heavy paraffinic: : Slight, transient irritation : Slight, transient irritation
DISTILLATES (PETROLEUM) Species Result	, HYDROTREATED HEAVY NAPHT: : Rabbit : Slight, transient irritation
MOLYBDENUM DISULFIDE: Result	: No eye irritation
Respiratory or skin sensitisat Skin sensitisation Not classified based on availab Respiratory sensitisation Not classified based on availab <u>Components:</u> RESIDUAL OILS (PETROLEU Test Type Species	le information. le information.



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Assessment Method	:	Does not cause skin sensitisation. OECD Test Guideline 406
Distillates (petroleum),	solvent	-dewaxed heavy paraffinic:
Test Type	:	Buehler Test
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHT:

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED:

Genotoxicity in vitro

: Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative

Carcinogenicity

Not classified based on available information.

- **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 on OSHA's list of regulated carcinogens.
- **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.

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.

Product:

No aspiration toxicity classification

Components:

RESIDUAL OILS (PETROLEUM), SOLVENT-REFINED:

No aspiration toxicity classification



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Distillates (petroleum), solvent-dewaxed heavy paraffinic: No aspiration toxicity classification

Further information <u>Product:</u>

Remarks

: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity <u>Product:</u> Ecotoxicology Assessment Short-term (acute) aquatic : hazard	Not classified based on available information.
Long-term (chronic) aquatic : hazard	Not classified based on available information.
<u>Components:</u> RESIDUAL OILS (PETROLEUM) Toxicity to fish :), SOLVENT-REFINED: LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other : aquatic invertebrates	EL50 (Scud (Gammarus pulex)): > 10,000 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202
Toxicity to algae :	NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201
Distillates (petroleum), solvent-de Toxicity to fish :	ewaxed heavy paraffinic: LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF
Toxicity to daphnia and other : aquatic invertebrates	EL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF



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Toxicity to algae	 NOEL (Pseudokirchneriella subcapitata (algae)): >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF
	HYDROTREATED HEAVY NAPHT: : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	 EL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	 NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEL (Daphnia (water flea)): 10 mg/l Exposure time: 21 d Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 211
Persistence and degradability	
<u>Components:</u> RESIDUAL OILS (PETROLEUM Biodegradability), SOLVENT-REFINED: : Result: Not readily biodegradable. Biodegradation: 2 - 4 % Exposure time: 28 d Method: OECD Test Guideline 301B Remarks: Information given is based on data obtained from similar substances.
Distillates (petroleum), solvent-d Biodegradability	ewaxed heavy paraffinic: Result: Inherently biodegradable Method: OECD Test Guideline 301F
	HYDROTREATED HEAVY NAPHT: Result: Inherently biodegradable



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Biodegradation: 31 % Exposure time: 28 d Method: OECD Test Guideline 301F

No data available Bioaccumulative potential Components:	
No data available	
Mobility in soil	
<u>Components:</u>	
No data available	
Other adverse effects	
No data available	
Product:	
Additional ecological information	: No data available

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
General advice	: Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	: Empty remaining contents.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

U.S. DOT - ROAD

Not dangerous goods	

CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods



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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

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : No SARA Hazards



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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:			
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	

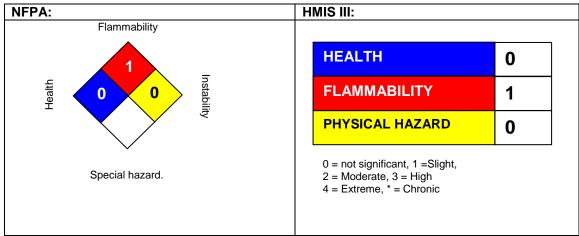
TSCA list

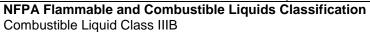
No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

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Full text of H-Statements



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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



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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