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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

: Valvoline™ SYNTHETIC DOT 3&4 BRAKE FLUID

Recommended use of the chemical and restrictions on use Use of the Substance/Mixture : BRAKE FLUID

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-ASHLAND (1-800-274-5263)
Ashland	
P.O. Box 2219	Regulatory Information Number
Columbus, OH 43216	1-800-325-3751
United States of America	
	Product Information
	614-790-3333
EHS Customer Requests@ashland.com	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage	: Category 1
GHS Label element Hazard pictograms	
Signal Word	: Danger
Hazard Statements	: Causes serious eye damage.
Precautionary Statements	 Prevention: 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. Immediately call a POISON CENTER or doctor/ physician.
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 (%)
Triethylene glycol monomethyl ether, borate	30989-05-0	Not a hazardous substance or mixture.	40.00
TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	Eye Dam. 1; H318	17.99
POLYOXYETHYLENE MONOBUTYL ETHER	9004-77-7	Eye Dam. 1; H318	13.00
TETRAETHYLENE GLYCOL	112-60-7	Not a hazardous substance or mixture.	10.00
TRIETHYLENE GLYCOL	112-27-6	Not a hazardous substance or mixture.	5.00
PENTAETHYLENE GLYCOL	4792-15-8	Not a hazardous substance or mixture.	5.00
DIISOPROPANOLAMINE	110-97-4	Eye Irrit. 2A; H319	1.50

SECTION 4. FIRST AID MEASURES

General advice	 Move out of dangerous area. Consult a physician. 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

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		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		In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye.
If swallowed		Obtain medical attention. Do NOT induce vomiting. 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		Causes serious eye damage. 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
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	carbon dioxide and carbon monoxide Hydrocarbons

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Alcohols Aldehydes	

		ethers Nitrogen oxides (NOx)
Specific extinguishing methods	:	
		Product is compatible with standard fire-fighting agents.
Further information	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
Other information	:	Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Do not breathe vapours/dust. Container hazardous when empty. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	 Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Triethylene glycol monomethyl ether, borate	30989-05-0	TWA	2 mg/m3 Inhalable fraction.	ACGIH
		STEL	6 mg/m3 Inhalable fraction.	ACGIH
TETRAETHYLENE GLYCOL	112-60-7	TWA	10 mg/m3 Particulate.	WEEL
TRIETHYLENE GLYCOL	112-27-6	TWA	10 mg/m3 Particulate.	WEEL
PENTAETHYLENE GLYCOL	4792-15-8	TWA	10 mg/m3 Particulate.	WEEL
DIISOPROPANOLAMINE	110-97-4	TWA	10 ppm	SUPLR EXP
		TWA	10 ppm	SUPLR EXP
		TWA	10 ppm	SUPLR EXP
		TWA	10 ppm	SUPLR EXP

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 equipme Hand protection Remarks	 The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Safety glasses
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

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Colour	: yellow
Odour	: ammoniacal
Odour Threshold	: No data available
рН	: No data available
Melting point/freezing point	: <-74 °F / <-59 °C
Boiling point/boiling range	: >469 °F / > 243 °C
Flash point	: 250 °F / 121 °C Method: Closed Cup
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	: Estimated < 0.01 mmHg
Relative vapour density	: >10AIR=1
Relative density	: No data available
Density	: 1.03 - 1.08 g/cm3
Solubility(ies) Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Thermal decomposition	: No data available
Viscosity Viscosity, dynamic	: No data available
Viscosity, kinematic	: 1,100 mm2/s (40 °C)
Oxidizing properties	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No decomposition if stored and applied as directed.

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Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Product will not undergo hazardous polymerization.
Conditions to avoid	 excessive heat Do not allow evaporation to dryness.
Incompatible materials	 Acids Alkaline earth metals
Hazardous decomposition products	acetaldehyde Alcohols Aldehydes carbon dioxide and carbon monoxide dioxolanes ethers ethylene glycol monomethyl ether formaldehyde-like Nitrogen oxides (NOx) Organic acids ketones

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : exposure	Inhalation Skin contact Eye Contact Ingestion
Acute toxicity Not classified based on available Components:	information.
Triethylene glycol monomethyl et	her, borate:
, , , , ,	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: No adverse effect has been observed in acute oral toxicity tests.
Acute dermal toxicity :	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

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

TRIETHYLENE GLYCOL MONOBUTYL ETHER: Acute oral toxicity : LD 50 (Rat): 5,300 mg/kg			
Acute dermal toxicity	: LD 50 (Rabbit): 3,502 mg/kg		
POLYOXYETHYLENE MONO	BUTYL ETHER: : LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401		
Acute dermal toxicity	: LD50 (Rabbit): 3,540 mg/kg		
TETRAETHYLENE GLYCOL: Acute oral toxicity	: LD 50 (Rat): ca. 30,000 mg/kg		
Acute dermal toxicity	: LD 50 (Rabbit): 22,460 mg/kg		
TRIETHYLENE GLYCOL: Acute oral toxicity	: LD 50 (Rat): 15,000 - 22,000 mg/kg		
Acute inhalation toxicity	 LC 50 (Rat): > 3.9 mg/l Exposure time: 4 h Assessment: Not classified as acutely toxic by inhalation under GHS. 		
Acute dermal toxicity	: LD 50 (Rabbit): > 22.6 g/kg		
Acute toxicity (other routes of administration)	: LD 50 (Rat): 11,700 mg/kg Application Route: Intravenous		
DIISOPROPANOLAMINE: Acute oral toxicity	 LD 50 (Rat): > 2,000 mg/kg Assessment: No adverse effect has been observed in acute oral toxicity tests. 		
Acute dermal toxicity	: LD 50 (Rabbit): 8,000 mg/kg		
Skin corrosion/irritation Not classified based on available information. <u>Product:</u> Result: Repeated exposure may cause skin dryness or cracking.			
<u>Components:</u> Triethylene glycol monomethyl ether, borate: Result: Not irritating to skin			

TRIETHYLENE GLYCOL MONOBUTYL ETHER: Result: Not irritating to skin

POLYOXYETHYLENE MONOBUTYL ETHER: Result: Slightly irritating to skin

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TETRAETHYLENE GLYCOL: Result: Not irritating to skin

TRIETHYLENE GLYCOL: Result: Not irritating to skin

PENTAETHYLENE GLYCOL: Result: Slightly irritating to skin

DIISOPROPANOLAMINE: Result: Not irritating to skin

Serious eye damage/eye irritation Causes serious eye damage. Product: Remarks: May cause irreversible eye damage.

Components:

Triethylene glycol monomethyl ether, borate: Result: Slightly irritating to eyes

TRIETHYLENE GLYCOL MONOBUTYL ETHER: Result: Corrosive to eyes

POLYOXYETHYLENE MONOBUTYL ETHER: Result: Corrosive to eyes

TETRAETHYLENE GLYCOL: Result: Mildly irritating to eyes

TRIETHYLENE GLYCOL: Result: Mildly irritating to eyes

PENTAETHYLENE GLYCOL: Result: Slightly irritating to eyes

DIISOPROPANOLAMINE: Result: Severely irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information. <u>Components:</u> POLYOXYETHYLENE MONOBUTYL ETHER: Test Type: Maximisation Test (GPMT) Species: Guinea pig Method: OECD Test Guideline 406 Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity Not classified based on available information. <u>Components:</u> PENTAETHYLENE GLYCOL:

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Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Result: negative
Genotoxicity in vivo	 Test Type: In vivo micronucleus test Test species: Mouse Cell type: Bone marrow Result: negative
Carcinogenicity Not classified based on availa Reproductive toxicity Not classified based on availa STOT - single exposure Not classified based on availa STOT - repeated exposure Not classified based on availa Aspiration toxicity Not classified based on availa Further information <u>Product:</u> Remarks: No data available	ble information. ble information. ble information.
Carcinogenicity: IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Triethylene glycol monomethyl	ether, borate:	
Toxicity to fish	 LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 	
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Water flea (Daphnia magna)): >= 500 mg/l Exposure time: 48 h	
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l Exposure time: 72 h	
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Method: OECD Test Guideline 201

POLYOXYETHYLENE MONO	BUTYL ETHER:
Toxicity to fish	 LC50 (Flatfish, flounder (Scophthalmus maximus)): > 1,800 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203
	Method. DECD Test Guideline 203
Toxicity to algae	: ErC50 (Skeletonema costatum (marine diatom)): 391 mg/l Exposure time: 72 h
TETRAETHYLENE GLYCOL:	
Toxicity to fish	: LC 50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: LC 50 (Water flea (Daphnia magna)): 7,746 mg/l Exposure time: 48 h
Toxicity to algae	: IC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l
TRIETHYLENE GLYCOL:	
Toxicity to fish	 LC 50 (Bluegill (Lepomis macrochirus)): > 10,000 mg/l Exposure time: 96 h Method: Static Remarks: Mortality
Toxicity to daphnia and other aquatic invertebrates	 EC 50 (Water flea (Daphnia magna)): 46,500 mg/l Exposure time: 48 h Method: Static Remarks: Intoxication
DIISOPROPANOLAMINE:	
Toxicity to fish	: LC 50 (Carassius auratus (goldfish)): 1,100 mg/l Exposure time: 24 h Test Type: static test
Persistence and degradabilit	y .
Components:	
Triethylene glycol monomethyl	ether, borate:
Biodegradability	 Biodegradation: > 70 % Exposure time: 28 d Method: OECD Test Guideline 301A
TETRAETHYLENE GLYCOL:	
Biodegradability	 Biodegradation: 40 % Exposure time: 28 d Method: OECD Test Guideline 301D
TRIETHYLENE GLYCOL:	

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Biodegradability	: Result: Readily t	biodegradable
Bioaccumulative potential		
Components: TETRAETHYLENE GLYCOL: Partition coefficient: n- octanol/water	: log Pow: Estima	ted -2.30
TRIETHYLENE GLYCOL: Bioaccumulation		7.8 mg/l
PENTAETHYLENE GLYCOL: Partition coefficient: n- octanol/water	: log Pow: -2.3	
DIISOPROPANOLAMINE: Partition coefficient: n- octanol/water	: log Pow: -0.82	
Mobility in soil		
<u>Components:</u> No data available		
Other adverse effects		
No data available		
Product:		
Additional ecological information	: No data available	e e e e e e e e e e e e e e e e e e e

Components:

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

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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	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - ROAD

Not dangerous goods

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*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

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

CERCLA Reportable Quantity

•				
Components		CAS-No.	Component RQ (lbs)	(lbs)
SODIUM HYDF	ROXIDE	1310-73-2	1000	100010.001
SARA 311/312 Hazards : Acute Health Hazard				
SARA 313 Con	nponent(s)			
		TRIETHYLENE GL` MONOMETHYL ET		6 30.00 %
		TRIETHYLENE GL` MONOBUTYL ETH		6 17.99 %
Pennsylvania l	Right To Know			
i ennsylvania i		monomethyl ether,	borate 30989-0	30.00 - 50.00 %
	POLYETHYLENE ETHER	GLYCOL MONOM	ETHYL 9004-74	30.00 - 50.00 %
	TRIETHYLENE G ETHER	LYCOL MONOMET	HYL 112-35-	6 30.00 - 50.00 %
	TRIETHYLENE G ETHER	LYCOL MONOBUT	YL 143-22-	6 10.00 - 20.00 %
	POLYOXYETHYL ETHER	ENE MONOBUTYL	. 9004-77	7-7 10.00 - 20.00 %
	TETRAETHYLEN	E GLYCOL	112-60-	7 10.00 - 20.00 %
	TRIETHYLENE G	LYCOL	112-27-	6 5.00 - 10.00 %
	PENTAETHYLEN	E GLYCOL	4792-15	5-8 5.00 - 10.00 %
	DIISOPROPANO	LAMINE	110-97-	4 1.00 - 5.00 %

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New Jersey Right To Know

-	Triethylene glycol monomethyl ether, borate	30989-05-0	30.00 - 50.00 %
	POLYETHYLENE GLYCOL MONOMETHYL ETHER	9004-74-4	30.00 - 50.00 %
	TRIETHYLENE GLYCOL MONOMETHYL ETHER	112-35-6	30.00 - 50.00 %
	TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	10.00 - 20.00 %
	POLYOXYETHYLENE MONOBUTYL ETHER	9004-77-7	10.00 - 20.00 %

California Prop 65 The components of this prod TSCA		This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. It are reported in the following inventories: On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL.
AUSTR	:	Not in compliance with the inventory
ENCS	:	Not in compliance with the inventory
KECL	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory

Inventories

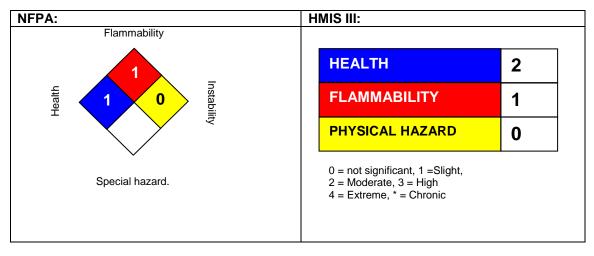
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

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SECTION 16. OTHER INFORMATION

Further information

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NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

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

H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Sources of key data used to compile the Safety Data Sheet Ashland 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 Ashland's Environmental Health and Safety Department (1-800-325-3751).

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.

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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