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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline™ 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 equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

: Safety glasses Eye protection

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

pH : No data available

Melting point/freezing point : < -74 °F / < -59 °C

Boiling point/boiling range : $> 469 \, ^{\circ}\text{F} / > 243 \, ^{\circ}\text{C}$

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

aluminum Bases Copper

galvanized metals

halogenated hydrocarbons

nitrites strong alkalis

Strong oxidizing agents

Zinc

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 : Inhalation

exposure

: Inhalation Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

Triethylene glycol monomethyl ether, borate:

Acute oral toxicity : 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 MONOBUTYL ETHER:

: LD50 (Rat): > 2,000 mg/kg Acute oral toxicity

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

: LD 50 (Rabbit): 22,460 mg/kg Acute dermal toxicity

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 : LD 50 (Rat): 11,700 mg/kg

administration)

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.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

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.

Components:

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.

Components:

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 available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

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

aquatic invertebrates

Toxicity to daphnia and other : 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 MONOBUTYL 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

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

aquatic invertebrates

Toxicity to daphnia and other : 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 degradability

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 biodegradable

Bioaccumulative potential

Components:

TETRAETHYLENE GLYCOL:

Partition coefficient: n-

octanol/water

: log Pow: Estimated -2.30

TRIETHYLENE GLYCOL:

Bioaccumulation : Species: Sheepshead minnow (Cyprinodon variegatus)

Bioconcentration factor (BCF): 1,700

Exposure time: 28 d Concentration: 7.8 mg/l Method: Flow through

PENTAETHYLENE GLYCOL:

Partition coefficient: n-

octanol/water

: log Pow: -2.3

DIISOPROPANOLAMINE:

Partition coefficient: n-

octanol/water

: log Pow: -0.82

Mobility in soil Components:

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 : 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** PROPER SHIPPING NAME ID NUMBER *HAZARD SUBSIDIARY **PACKING** MARINE **HAZARDS GROUP** POLLUTANT / CLASS LTD. QTY. U.S. DOT - ROAD Not dangerous goods U.S. DOT - RAIL Not dangerous goods **U.S. DOT - INLAND WATERWAYS** Not dangerous goods TRANSPORT CANADA - ROAD Not dangerous goods TRANSPORT CANADA - RAIL Not dangerous goods TRANSPORT CANADA - INLAND WATERWAYS 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

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND

Not dangerous goods

WASTES

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*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

Component RQ

(lbs)

1000

112-27-6

4792-15-8

110-97-4

Calculated product RQ

(lbs)

100010.001

5.00 - 10.00 %

5.00 - 10.00 %

1.00 - 5.00 %

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

CAS-No.

1310-73-2

CERCLA Reportable Quantity

SODIUM HYDROXIDE

Components

SARA 311/312	Hazards :	Acute Health Hazard		
SARA 313 Com	nponent(s)	TRIETHYLENE GLYCOL MONOMETHYL ETHER	112-35-6	30.00 %
		TRIETHYLENE GLYCOL MONOBUTYL ETHER	143-22-6	17.99 %
Pennsylvania Right To Know Triethylene glycol monomethyl ether, borate		30989-05-0	30.00 - 50.00 %	
	POLYETHYLEN ETHER	E GLYCOL MONOMETHYL	9004-74-4	30.00 - 50.00 %
	TRIETHYLENE (GLYCOL MONOMETHYL	112-35-6	30.00 - 50.00 %
	TRIETHYLENE (GLYCOL MONOBUTYL	143-22-6	10.00 - 20.00 %
	POLYOXYETHY ETHER	LENE MONOBUTYL	9004-77-7	10.00 - 20.00 %
	TETRAETHYLE	NE GLYCOL	112-60-7	10.00 - 20.00 %

TRIETHYLENE GLYCOL

DIISOPROPANOLAMINE

PENTAETHYLENE GLYCOL

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New Jersey Right To Know

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

California Prop 65 This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

The components of this product are reported in the following inventories:

TSCA : On 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

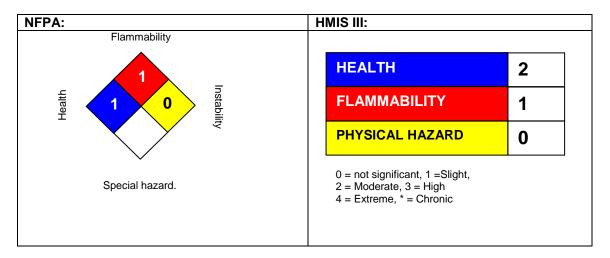
Inventories

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 Revision Date: 05/22/2015



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