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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

: NAPA® MAC'S BRAKE & Trade name

BRAKE PARTS CLEANER

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data **Emergency telephone number** sheet CHEMTREC DIRECT 1-800-424-9300 Niteo Products, LLC P.O. Box 191629 **Product Information** Dallas TX 75219 1-844-696-4836 United States of America

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

Carcinogenicity : Category 2

Specific target organ systemic toxicity - single

exposure

: Category 3 (Central nervous system)

GHS Label element

Hazard pictograms





Signal Word : Warning

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Hazard Statements : Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

May cause drowsiness or dizziness. Suspected of causing cancer.

Precautionary Statements : Prev

: Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the

workplace.

Wear protective gloves/ protective clothing/ eye protection/ face

protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if

you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

IF exposed or concerned: Get medical advice/ attention. 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.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
TETRACHLOROETHYLENE	127-18-4	Acute Tox. 4; H332	91.78

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	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H336	
CARBON DIOXIDE	Press. Gas Liquefied gas; H280	8.12

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Call a POISON CENTRE or doctor/physician if exposed or

you feel unwell.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

Keep patient warm and at rest.

If unconscious place in recovery position and seek medical

advice.

Consult a physician after significant exposure.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

If swallowed : Obtain medical attention.

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

: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs

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may initiate cardiac arrhythmias in persons exposed to this

material.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include: redness of the skin

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

temporary changes in mood and behavior

confusion

irregular heartbeat Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

Harmful if inhaled.

May cause drowsiness or dizziness. Suspected of causing cancer.

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

Unsuitable extinguishing

media

: High volume water jet

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

Chlorine

hydrogen chloride

Phosgene

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.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation.

Avoid breathing dust.

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.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours/dust.

Do not smoke.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

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 : BEWARE: Aerosol is pressurized. Keep away from direct sun

exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or

red-hot objects.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

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 with workplace control parameters					
Components	CAS-No.	Value type	Control	Basis	
		(Form of	parameters /		
		exposure)	Permissible		
			concentration		
TETRACHLOROETHYLENE	127-18-4	TWA	25 ppm	ACGIH	
		STEL	100 ppm	ACGIH	
		TWA	100 ppm	OSHA/Z2	
		Ceiling	200 ppm	OSHA/Z2	
		MAX. CONC	300 ppm	OSHA/Z2	
		TWA	25 ppm	TN OEL	
			170 mg/m3		
CARBON DIOXIDE	124-38-9	TWA	5,000 ppm	ACGIH	
		STEL	30,000 ppm	ACGIH	
		REL	5,000 ppm	NIOSH/GUID	
			9,000 mg/m3	E	
		STEL	30,000 ppm	NIOSH/GUID	
			54,000 mg/m3	E	
		PEL	5,000 ppm	OSHA_TRA	
			9,000 mg/m3	NS	

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
TETRACHLOROETH YLENE	127-18-4	tetrachloroet hylene	Blood	Sampling time: Prior to shift.	0.5 mg/l	
		tetrachloroet hylene	End- exhaled air	Sampling time: Prior to shift.	3 ppm	

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

Respiratory protection

: In the case of vapour formation use a respirator with an approved filter.

In the case of dust or aerosol formation use respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-

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supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not

provide adequate protection.

Hand protection

Remarks The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles when there is the potential for

exposure of the eyes to liquid, vapor or mist.

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. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment

supplier).

: Wash hands before breaks and at the end of workday. Hygiene measures

> When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : aerosol

Physical state : aerosol

Odour : No data available

Odour Threshold : No data available

pН No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 250.3 °F / 121.3 °C

Calculated Phase Transition Liquid/Gas

Flash point : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

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Vapour pressure : 24.6642 hPa (25 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : No data available

Solubility(ies)

Water solubility : No data available

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 : No data available

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 : Avoid heat, open flame, and prolonged storage at elevated

temperatures. UV light.

Exposure to sunlight.

Incompatible materials : Alkali metals

aluminum Amines Barium Strong acids strong bases

Strong oxidizing agents

Zinc

Hazardous decomposition

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products carbon dioxide and carbon monoxide

Chlorine

hydrogen chloride

Phosgene

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Skin contact

Eve Contact

Eye Contact Ingestion

Acute toxicity
Harmful if inhaled.

Components:

TETRACHLOROETHYLENE:

Acute oral toxicity : LD50 (Rat, male): 3,835 mg/kg

LD50 (Rat, female): 3,005 mg/kg

Acute inhalation toxicity : Assessment: The component/mixture is classified as acute

inhalation toxicity, category 4.

Acute dermal toxicity : LD 50 (Rabbit): > 3,228 mg/kg

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

TETRACHLOROETHYLENE:

Result: Irritating to skin

CARBON DIOXIDE:

Result: Not irritating to skin

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:

TETRACHLOROETHYLENE:

Result: Irritating to eyes

CARBON DIOXIDE:

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Result: Not irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

TETRACHLOROETHYLENE:
Test Type: Local lymph node assay

Exposure routes: Dermal

Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

GLP: yes

Germ cell mutagenicity

Not classified based on available information.

Components:

TETRACHLOROETHYLENE:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test species: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

: Test Type: In vitro mammalian cell gene mutation test

Test species: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Carcinogenicity

Suspected of causing cancer.

Components:

TETRACHLOROETHYLENE:

Carcinogenicity - : Limited evidence of carcinogenicity in animal studies

Assessment

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

TETRACHLOROETHYLENE:

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Exposure routes: inhalation (vapour)
Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

Components:

TETRACHLOROETHYLENE:
Remarks: Central nervous system

Carcinogenicity:

IARC Group 2A: Probably carcinogenic to humans

TETRACHLOROETHYLENE 127-18-4

OSHANo 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 Reasonably anticipated to be a human carcinogen

TETRACHLOROETHYLENE 127-18-4

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

TETRACHLOROETHYLENE:

Toxicity to fish : LC 50 (Rainbow trout, donaldson trout (Oncorhynchus

mykiss)): 4.73 - 5.27 mg/l Exposure time: 96 h Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 7 - 11 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Green algae): 3.64 mg/l

End point: Growth inhibition

Exposure time: 72 h

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Toxicity to fish (Chronic

IC

: NOEC (Jordanella floridae (flagfish)): 2.34 mg/l

toxicity)

Exposure time: 28 d

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.51 mg/l

Exposure time: 28 d

End point: Reproduction Test Test Type: semi-static test

Toxicity to bacteria : IC50 (Bacteria): 112 mg/l

Exposure time: 24 h

Persistence and degradability

Components:

TETRACHLOROETHYLENE:

Biodegradability : Remarks: Not readily biodegradable.

Bioaccumulative potential

Components:

TETRACHLOROETHYLENE:

Bioaccumulation : Species: Bluegill (Lepomis macrochirus)

Bioconcentration factor (BCF): 49

Exposure time: 21 d

Concentration: 0.00343 mg/l

Method: Flow through

Partition coefficient: n-

octanol/water

: log Pow: 2.53 (23 °C)

Mobility in soil Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with

long lasting effects.

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

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.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

U.S. DOT - ROAD

U.S. DU I	- 1104	4D		
UN ′	1950	Aerosols	2.2	MARINE
				POLLUTANT:(
				TETRACHLOR
				OETHYLENE)
				LIMITED
				QUANTITY

U.S. DOT - RAIL

UN	1950	Aerosols	2.2	MARINE POLLUTANT:(TETRACHLOR OETHYLENE)
				LIMITED
				QUANTITY

U.S. DOT - INLAND WATERWAYS

UN	1950	Aerosols	2.2	MARINE
				POLLUTANT:(
				TETRACHLOR
				OETHYLENE)
				LIMITED
				QUANTITY

TRANSPORT CANADA - ROAD

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PR		CTS		
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CLEAN	NER			
NM470	00			
UN	1950	AEROSOLS	2.2	LIMITED
				QUANTITY
DANC	DODT CA	NADA - RAIL		
UN	1950	AEROSOLS	2.2	LIMITED QUANTITY
		NADA - INLAND		
UN	1950	AEROSOLS	2.2	MARINE POLLUTANT:(TETRACHLOF OETHYLENE) LIMITED QUANTITY
NTERN UN	IATIONAL 1950	<u>- MARITIME DAN</u> AEROSOLS	IGEROUS GOODS 2.2	MARINE POLLUTANT: TETRACHLOF OETHYLENE)
			RT ASSOCIATION - C.	,
UN	1950	Aerosols, non-fl	ammable 2.2	
NTERN UN	IATIONAL 1950	AIR TRANSPOI	RT ASSOCIATION - Pa ammable 2.2	ASSENGER
<u> </u>	1000	7,0100010, 11011 11	2.2	
MEXICA VASTE		LATION FOR TH	E LAND TRANSPORT	OF HAZARDOUS MATERIALS AND
UN	1950	AEROSOLES	2	
ORM =	ORM-D,	CBL = COMBUS	TIBLE LIQUID	
	/larine poll		yes	
	tions that			not reflect quantity, end-use or region-specific nents for descriptions that are specific to the

SECTION 15. REGULATORY INFORMATION

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

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CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
TETRACHLOROETHYLENE	127-18-4	100	108.947534

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

SARA 313 Component(s)

TETRACHLOROETHYLE 127-18-4 91.78 %

ΝE

Pennsylvania Right To Know

TETRACHLOROETHYLENE 127-18-4 90.00 - 100.00 %

CARBON DIOXIDE 124-38-9 5.00 - 10.00 %

New Jersey Right To Know

TETRACHLOROETHYLENE 127-18-4 90.00 - 100.00 % CARBON DIOXIDE 124-38-9 5.00 - 10.00 %

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer. TETRACHLOROETHYLE 127-18-4

NE

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

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

AICS : On the inventory, or in compliance with the inventory

NZIOC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or 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

Inventories

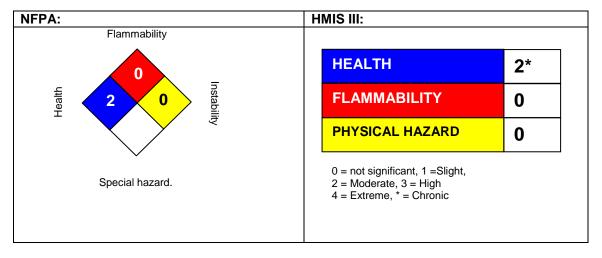
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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SECTION 16. OTHER INFORMATION

Further information

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NFPA Flammable and Combustible Liquids Classification

Not applicable

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

H280	Contains gas under pressure; may explode if heated.
H303	May be harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

Sources of key data used to compile the Safety Data Sheet

Internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

Cefic, the European Chemical Industry Council.

ESIS European Chemical Substances Information System

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 Niteo's Environmental Health and Safety Department (1-844-696-4836).

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List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

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