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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

: Zerex™ GREEN HD PRE-CHARGED ANTIFREEZE COOLANT

Recommended use of the chemical and restrictions on use

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	
Acute toxicity (Oral)	: Category 4
Reproductive toxicity	: Category 1B
Specific target organ systemic toxicity - repeated exposure (Oral)	: Category 2 (Kidney, Liver)
GHS Label element	
Hazard pictograms	
Signal Word	: Danger
Hazard Statements	 Harmful if swallowed. May damage fertility or the unborn child. May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure if swallowed.
Precautionary Statements	: Prevention: Obtain special instructions before use.

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Do not handle until all safety precautions have been read and understood. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF exposed or concerned: Get medical advice/ attention. Storage: 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 (%)
ETHYLENE GLYCOL	107-21-1	Acute Tox. 4; H302	95.22
		STOT RE 2; H373	
DIETHYLENE GLYCOL	111-46-6	Acute Tox. 4; H302 STOT RE 2; H373	4.76
DISODIUM TETRABORATE ANHYDROUS	1330-43-4	Repr. 1B; H360	0.50

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.

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If inhaled	Do not leave the	data sheet to the doctor in attendance. victim unattended. lace in recovery position and seek medical
	advice. If symptoms per	sist, call a physician.
In case of skin contact		ormally required. However, it is nat exposed areas be cleaned by washing ater.
In case of eye contact	Remove contact Protect unharme	
If swallowed	Never give anyth	
Most important symptoms and effects, both acute and delayed	fairly distinct stag exposure, lasts of nervous system vomiting, and in possible death). after exposure a phase is charact hypotension, cya edema, broncho congestive failur exposure and is mild increase in by recovery, to c that can lead to of most significant	ethylene glycol poisoning appear in three ges. The initial stage occurs shortly after 5-12 hours, and is characterized by central effects (transient exhilaration, nausea, severe cases, coma, convulsions, and The second stage lasts from 12-36 hours nd is initiated by the onset of coma. This rerized by tachypnia, tachycardia, mild anosis, and in severe cases, pulmonary pneumonia, cardiac enlargement, and e. The final stage occurs 24-72 post- characterized by renal failure, ranging from a blood urea nitrogen and creatinine followed complete anuria with acute tubular necrosis death. Oxaluria is found in most cases. The laboratory finding in ethylene glycol evere metabolic acidosis.
	breathing, swalld the skin may incl stomach or intes irritation (nose, th Cough pain in the abdor cyanosis (cause of oxygen) lung edema (fluid	tinal upset (nausea, vomiting, diarrhea)

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	ertility or the unborn child. nage to organs through prolonged or repeated

Notes to physician	: This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and the metholitee free hospite.
	and its metabolites from the body.

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	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Alcohols Aldehydes carbon dioxide and carbon monoxide ethers toxic fumes Hydrocarbons
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. 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. Do not smoke. 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	 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	

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			concentration	
ETHYLENE GLYCOL	107-21-1	Ceiling	100 mg/m3 Aerosol.	ACGIH
		TWA	10 mg/m3 Inhalable fraction and vapor	ACGIHLIS_P
DIETHYLENE GLYCOL	111-46-6	TWA	10 mg/m3	WEEL
DISODIUM TETRABORATE ANHYDROUS	1330-43-4	REL	1 mg/m3	NIOSH/GUID E
		TWA	10 mg/m3	TN OEL
		TWA	2 mg/m3 Inhalable fraction.	ACGIH
		STEL	6 mg/m3 Inhalable fraction.	ACGIH

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
	p. 0.000.00	• • • • • • • • • • • • • • • • • • • •

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Respiratory protection :	In the case of vapour formation use a 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- 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 :	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: 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.

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

Physical state	: liquid
Odour	: No data available
Odour Threshold	: No data available
рН	: 10 - 11.2, 100 %
Melting point/freezing point	: No data available
Boiling point/boiling range	: 212 °F / 100 °C (1,013.333333 hPa)
Flash point	Calculated Phase Transition Liquid/Gas : > 482 °F / > 250 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: 15.3 %(V) GLP: Calculated Explosive Limit
Lower explosion limit	: 3.2 %(V) GLP: Calculated Explosive Limit
Vapour pressure	: 23.3333333 hPa (20 °C) Calculated Vapor Pressure
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1.1229 g/cm3 (15.6 °C)
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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Viscosity, kinematic: No data availableOxidizing 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	: excessive heat
Incompatible materials	: Acids Aldehydes Alkali metals Alkaline earth metals Bases strong alkalis Strong oxidizing agents Sulphur compounds
Hazardous decomposition products	Alcohols Aldehydes carbon dioxide and carbon monoxide ethers Hydrocarbons Organic acids ketones

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation Skin contact Eye Contact Ingestion
Acute toxicity	:
Harmful if swallowed.	Remarks: Ingestion of medications contaminated with
<u>Product:</u>	diethylene glycol has caused kidney failure and death in
Acute oral toxicity	humans. Products containing diethylene glycol should be

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	considered toxic	by indestion
	considered toxic	by ingestion.
Acute dermal toxicity		osorption of this material (or a component) d through injured skin.
<u>Components:</u> ETHYLENE GLYCOL:		
Acute oral toxicity	: LD 50 (Rat): 6,14	0 mg/kg
		Estimated 1.56 g/kg e component/mixture is classified as acute gory 4.
Acute inhalation toxicity	: LC 50 (Rat): 10.9 Exposure time: 1 Test atmosphere Assessment: No inhalation toxicity	h : dust/mist adverse effect has been observed in acute
Acute dermal toxicity	: LD 50 (Rabbit): 9	,530 mg/kg
DIETHYLENE GLYCOL: Acute oral toxicity	: LD50 (Human): E Target Organs: K	expected 1,120 mg/kg idney
Acute inhalation toxicity	: LC50 (Rat): > 4.6 Exposure time: 4 Test atmosphere Assessment: No inhalation toxicity	h : dust/mist adverse effect has been observed in acute
Acute dermal toxicity	: LD 50 (Rabbit): 1	3,300 mg/kg
DISODIUM TETRABORATE A Acute inhalation toxicity	: LC50 (Rat): > 2.0 Exposure time: 4 Test atmosphere Method: OECD T	h : dust/mist est Guideline 403 adverse effect has been observed in acute
Acute dermal toxicity	: LD 50 (Rabbit): > Assessment: No dermal toxicity te	adverse effect has been observed in acute

ETHYLENE GLYCOL: Result: Mildly irritating to skin

DIETHYLENE GLYCOL: Species: Human

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Result: Slightly irritating to skin

DISODIUM TETRABORATE ANHYDROUS: Species: Rabbit Result: Not irritating to skin

Serious eye damage/eye irritation Not classified based on available information. Product: Remarks: Unlikely to cause eye irritation or injury.

Components:

ETHYLENE GLYCOL: Result: Possibly irritating to eyes

DIETHYLENE GLYCOL: Species: Rabbit Result: Slightly irritating to eyes

DISODIUM TETRABORATE ANHYDROUS: Result: Slightly 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> DIETHYLENE GLYCOL: Test Type: Maximisation Test (GPMT) Species: Guinea pig Method: Directive 67/548/EEC, Annex V, B.6. Result: Did not cause sensitisation on laboratory animals.

DISODIUM TETRABORATE ANHYDROUS: Test Type: Buehler Test Species: Guinea pig Assessment: Does not cause skin sensitisation. Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information. **Components:**

DIETHYLENE GLYCOL:

Genotoxicity in vitro

- : Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
- : Test species: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 479 Result: negative GLP: yes

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Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: Mouse Method: OECD Test Guideline 474 Result: negative GLP: yes
Carcinogenicity Not classified based on avail Reproductive toxicity May damage fertility or the u	
Components: DISODIUM TETRABORATE	ANHYDROUS:
Reproductive toxicity - Assessment	: Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments
STOT - single exposure Not classified based on avail STOT - repeated exposure	able information.
May cause damage to organ swallowed. <u>Components:</u> ETHYLENE GLYCOL: Exposure routes: Ingestion	s (Kidney, Liver) through prolonged or repeated exposure if
Target Organs: Kidney, Liver Assessment: May cause dan	nage to organs through prolonged or repeated exposure.
DIETHYLENE GLYCOL: Exposure routes: Ingestion Target Organs: Kidney Assessment: May cause dan	nage to organs through prolonged or repeated exposure.
Aspiration toxicity Not classified based on avail Experience with human exp Components: DIETHYLENE GLYCOL:	
Liver Further information <u>Product:</u> 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

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by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
<u>Components:</u> ETHYLENE GLYCOL:		
Toxicity to fish	:	LC 50 (Bluegill (Lepomis macrochirus)): 27,540 mg/l Exposure time: 96 h Method: Static Remarks: Mortality
		LC 50 (Fathead minnow (Pimephales promelas)): 8,050 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC 50 (Water flea (Daphnia magna)): > 10,000 mg/l Exposure time: 48 h Test Type: static test
DIETHYLENE GLYCOL:		
Toxicity to fish	:	LC 50 (Fathead minnow (Pimephales promelas)): 75,210 mg/l Exposure time: 96 h Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates	:	LC 50 (Water flea (Daphnia magna)): > 10,000 mg/l Exposure time: 24 h Test Type: static test Method: DIN 38412
DISODIUM TETRABORATE	AN	HYDROUS:
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 79.7 mg/l Exposure time: 96 h Remarks: Information refers to the main component.
Toxicity to algae	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 17.5 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 Remarks: Information refers to the main component.
Toxicity to fish (Chronic toxicity)	:	NOEC (Danio rerio (zebra fish)): 5.6 mg/l Exposure time: 34 d Test Type: semi-static test Method: OECD Test Guideline 210 Remarks: Information refers to the main component.

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Persistence and degradabilit	у			
<u>Components:</u> DIETHYLENE GLYCOL:				
Biodegradability	Biodegradation: Exposure time: 2	Result: Readily biodegradable Biodegradation: 70 - 80 % Exposure time: 28 d Method: OECD Test Guideline 301B		
DISODIUM TETRABORATE A Biodegradability	: Result: The meth	nods for determining biodegradability are not ganic substances.		
Bioaccumulative potential				
Components: ETHYLENE GLYCOL: Bioaccumulation	Species: Crayfish (Procambarus) Bioconcentration factor (BCF): 0.27 Exposure time: 61 d Concentration: 1000 mg/l Method: Flow through			
Partition coefficient: n- octanol/water	: log Pow: -1.36			
DIETHYLENE GLYCOL: Bioaccumulation		us idus (Golden orfe) factor (BCF): 100		

Partition coefficient: n-	:	log Pow: -1.47
octanol/water		

Mobility in soil

<u>Components:</u> 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., Harmful to aquatic life.

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. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

U.S. DOT - ROAD

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

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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

WASTES

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant

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

no

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ETHYLENE GLYCOL	107-21-1	5000	5250.655807

SARA 311/312 Hazards	: Acute Health Hazard Chronic Health Hazard		
SARA 313 Component(s)	ETHYLENE GLYCOL	107-21-1	95.22 %
Pennsylvania Right To Know ETHYLENE G DIETHYLENE	GLYCOL	107-21-1 111-46-6	90.00 - 100.00 % 1.00 - 5.00 %
New Jersey Right To Know ETHYLENE GLYCOL DIETHYLENE GLYCOL		107-21-1 111-46-6	90.00 - 100.00 % 1.00 - 5.00 %
WATER		7732-18-5	1.00 - 5.00 %

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California Prop 65	Proposition 65 warnings are not required for this product based on the results of a risk assessment.
The components of this produ TSCA	ict are reported in the following inventories: : On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AUSTR	: On the inventory, or in compliance with the inventory
NZIOC	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory
KECL	: 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

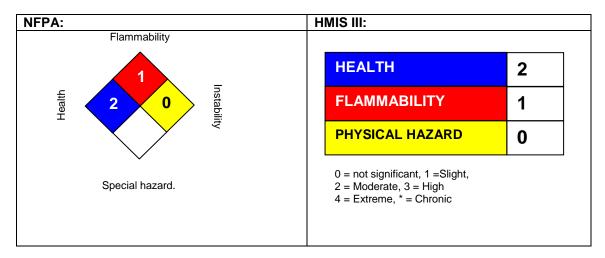
Inventories

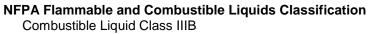
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

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Full text of H-Statements referred to under sections 2 and 3.H302Harmful if swallowed.H360May damage fertility or the unborn child.H373May cause damage to organs through prolonged or repeated ext

May cause damage to organs through prolonged or repeated exposure if swallowed.

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.

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