

**AlphaPlus® C14-16-18 Blend**

Version 1.3

Revision Date 2015-02-04

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product information**

Product Name : AlphaPlus® C14-16-18 Blend

Use : Solvent

Company : Qatar Chemical Company LTD (QChem)
1st Floor Salam Tower Al Corniche
P.O. Box 24646
Doha, QatarSDS Requests: (+974) 4484-7110
Technical Information: (+974) 4477-0047
Responsible Party: Product Safety Group
Email: MSDSInquiry@qchem.com.qa**Emergency telephone:****Health:**

866.442.9628 (North America)

1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887

Asia: +800 CHEMCALL (+800 2436 2255) China: +86-21-22157316

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group
E-mail address : SDS@CPChem.com
Website : www.CPChem.com**SECTION 2: Hazards identification****Classification of the substance or mixture**

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Emergency Overview**Danger****Form:** Liquid **Physical state:** Liquid **Color:** Colorless **Odor:** Odorless

OSHA Hazards : Aspiration hazard

Classification


: Aspiration hazard , Category 1

Labeling

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

Symbol(s) : 

Signal Word : Danger

Hazard Statements : H304: May be fatal if swallowed and enters airways.

Precautionary Statements : **Response:**
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 P331 Do NOT induce vomiting.
Storage:
 P405 Store locked up.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3: Composition/information on ingredients

Molecular formula : Mixture

Component	CAS-No.	Weight %
1-Tetradecene	1120-36-1	15 - 60
1-Hexadecene	629-73-2	20 - 50
1-Octadecene	112-88-9	10 - 40

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

If swallowed : Keep respiratory tract clear. 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. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point : 124 °C (255 °F)
Method: Cleveland Open Cup

Autoignition temperature : 228 °C (442 °F)

Unsuitable extinguishing media : High volume water jet.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire and explosion protection : Normal measures for preventive fire protection.

Hazardous decomposition products : Carbon Dioxide. Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment. Ensure adequate ventilation.

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 for 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.

SECTION 7: Handling and storage**Handling**

Advice on safe handling : Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection**Personal protective equipment**

Respiratory protection : Suitable respiratory equipment.

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Form : Liquid

Physical state : Liquid

Color : Colorless

Odor : Odorless

Safety data

Flash point : 124 °C (255 °F)
Method: Cleveland Open Cup

Lower explosion limit : 0.5 %(V)

Upper explosion limit : 5.9 %(V)

Oxidizing properties : no

Autoignition temperature : 228 °C (442 °F)

Molecular formula : Mixture

Molecular weight : Not applicable

pH : Not applicable

Freezing point : 15 °C (59 °F)

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

Boiling point/boiling range	: > 250 °C (> 482 °F)
Vapor pressure	: < 0.01 MMHG at 20 °C (68 °F)
Relative density	: 0.77, 25 °C(77 °F)
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Viscosity, kinematic	: 2 - 3 cSt at 40 °C (104 °F)
Relative vapor density	: 7.7 (Air = 1.0)

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions

Conditions to avoid	: No data available.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous decomposition products	: Carbon Dioxide Carbon oxides
Other data	: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**Acute oral toxicity**

1-Hexadecene	: LD50: 10 g/kg Species: rat Sex: male and female Method: OECD Test Guideline 401 Test substance: yes
1-Octadecene	: LD50: > 10,000 mg/kg Species: rat Sex: male and female Method: OECD Test Guideline 401 Test substance: no Information given is based on data obtained from similar substances.

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

Acute inhalation toxicity

1-Tetradecene : LC50: 32000 ppm
 Exposure time: 4 h
 Species: rat
 Sex: male
 Test atmosphere: vapor
 Method: OECD Test Guideline 403
 Information given is based on data obtained from similar substances.

1-Hexadecene LC50: > 8.5 mg/l
 Exposure time: 1 h
 Species: rat
 Sex: male
 Test atmosphere: dust/mist

Acute dermal toxicity

1-Hexadecene : LD50: > 2020 mg/kg
 Species: rabbit
 Sex: male and female
 Information given is based on data obtained from similar substances.

**AlphaPlus® C14-16-18 Blend
Skin irritation**

: According to the classification criteria of the European Union, the product is not considered as being a skin irritant. Information refers to the main ingredient.

**AlphaPlus® C14-16-18 Blend
Eye irritation**

: No eye irritation

Sensitization

1-Tetradecene : Did not cause sensitization on laboratory animals.

1-Hexadecene Did not cause sensitization on laboratory animals.

1-Octadecene Did not cause sensitization on laboratory animals.

Repeated dose toxicity

1-Hexadecene : Species: rat, Male and female
 Sex: Male and female
 Application Route: oral gavage
 Dose: 100, 500, or 1000 mg/kg/day
 Exposure time: 42- 51 days
 Number of exposures: Daily
 NOEL: 1000 mg/kg bw/day
 Method: OECD Guideline 422
 Information given is based on data obtained from similar substances.

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

Species: rat, male
 Sex: male
 Application Route: oral gavage
 Dose: 10, 101, 1010, 3365 mg/kg/day
 Exposure time: 4 weeks
 Number of exposures: 7 days/week
 NOEL: 101 mg/kg bw/day
 Method: OECD Test Guideline 407
 Target Organs: Stomach
 Information given is based on data obtained from similar substances.

Species: rat, female
 Sex: female
 Application Route: oral gavage
 Dose: 10, 101, 1010, 3365 mg/kg/day
 Exposure time: 4 weeks
 Number of exposures: 7 days/week
 NOEL: 1010 mg/kg bw/day
 Method: OECD Test Guideline 407
 Information given is based on data obtained from similar substances.

Species: rat, Male and female
 Sex: Male and female
 Application Route: oral gavage
 Dose: 100, 500, 1000 mg/kg/day
 Exposure time: 13 weeks
 Number of exposures: 7 days/week
 NOEL: 1000 mg/kg bw/day
 Information given is based on data obtained from similar substances.

Species: rat, Male and female
 Sex: Male and female
 Application Route: Inhalation
 Dose: 300, 1000, 3000 ppm
 Exposure time: 13 weeks
 Number of exposures: 6 hrs/day, 5 days/week
 NOEL: 3000 ppm
 Information given is based on data obtained from similar substances.

1-Octadecene

Species: rat (female)
 Application Route: oral gavage
 Dose: 0, 100, 500, 1000 mg/kg/d
 NOEL: 1,000 mg/kg
 Method: OECD Guideline 422
 Information given is based on data obtained from similar substances.

Reproductive toxicity

1-Tetradecene

: Species: rat
 Sex: male
 Application Route: Oral diet
 Dose: 0, 100, 500, 1000 mg/kg
 Exposure time: 43-47 days
 Method: OECD Guideline 422

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

NOAEL Parent: 1,000 mg/kg
 NOAEL F1: 1,000 mg/kg

Species: rat
 Sex: female
 Application Route: Oral diet
 Dose: 0, 100, 500, 1000 mg/kg
 Exposure time: 46-47 days
 Method: OECD Guideline 422
 NOAEL Parent: 1,000 mg/kg
 NOAEL F1: 1,000 mg/kg

1-Hexadecene

Species: rat
 Sex: female
 Application Route: oral gavage
 Dose: 100, 500, 1000 mg/kg/day
 Number of exposures: Daily
 Test period: 41 to 55 days
 Method: OECD Guideline 421
 NOAEL Parent: 1000 mg/kg bw/day
 NOAEL F1: 1000 mg/kg bw/day
 Information given is based on data obtained from similar substances.

Species: rat
 Sex: male and female
 Application Route: oral gavage
 Dose: 100, 500, 1000 mg/kg/day
 Number of exposures: Daily
 Test period: 42- 51days
 Method: OECD Guideline 422
 NOAEL Parent: 1000 mg/kg bw/day
 NOAEL F1: 1000 mg/kg bw/day
 Information given is based on data obtained from similar substances.

1-Octadecene

Species: rat
 Sex: male and female
 Application Route: oral gavage
 Dose: 0, 100, 500, 1000 mg/kg/d
 Method: OECD Guideline 421
 NOAEL Parent: 1,000 mg/kg
 NOAEL F1: 1,000 mg/kg
 Information given is based on data obtained from similar substances.

**AlphaPlus® C14-16-18 Blend
 Aspiration toxicity**

: May be fatal if swallowed and enters airways.
 Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

CMR effects**1-Tetradecene**

: Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 Reproductive toxicity: No toxicity to reproduction

1-Hexadecene

Carcinogenicity: Not classifiable as a human carcinogen.

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

1-Octadecene	<p>Mutagenicity: Did not show mutagenic effects in animal experiments. Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction</p> <p>Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Not available Reproductive toxicity: No toxicity to reproduction</p>
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AlphaPlus® C14-16-18 Blend**Further information** : Solvents may degrease the skin.**SECTION 12: Ecological information****Toxicity to fish**

1-Tetradecene	<p>: LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Test substance: yes Method: OECD Test Guideline 203 The product has low solubility in the test medium. An aqueous dispersion was tested.</p>
1-Hexadecene	<p>LL50: > 1000 mg/L Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203 The product has low solubility in the test medium. An aqueous dispersion was tested.</p>
1-Octadecene	<p>LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.</p>

Toxicity to daphnia and other aquatic invertebrates

1-Tetradecene	<p>: EL50: > 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test substance: yes Method: OECD Test Guideline 202 The product has low solubility in the test medium. An aqueous dispersion was tested.</p>
1-Hexadecene	<p>EL50: < 1000 mg/L Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 The product has low solubility in the test medium. An aqueous dispersion was tested.</p>

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

1-Octadecene EL50: > 1,000 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 202
 Information given is based on data obtained from similar substances.

Toxicity to algae

1-Tetradecene : EL50: > 1,000 mg/l
 Exposure time: 96 h
 Species: Selenastrum capricornutum (algae)
 static test Test substance: yes
 Method: OECD Test Guideline 201
 The product has low solubility in the test medium. An aqueous dispersion was tested.

1-Hexadecene EC50: > 1000 mg/L
 Exposure time: 72 h
 Species: Selenastrum capricornutum (algae)
 static test Method: OECD Test Guideline 201
 The product has low solubility in the test medium. An aqueous dispersion was tested.

1-Octadecene EC50: > 1,000 mg/l
 Exposure time: 72 h
 Species: Raphidocellus subcapitata (algae)
 Method: OECD Test Guideline 201
 Information given is based on data obtained from similar substances.

Toxicity to bacteria

1-Octadecene : NOEC: 3 mg/l
 Exposure time: 120 h
 Respiration inhibition

Elimination information (persistence and degradability)

Bioaccumulation

1-Hexadecene : Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

1-Octadecene : Bioconcentration factor (BCF): 5,128
 Method: Estimated based on individual component values.

Biodegradability : Expected to be ultimately biodegradable

Ecotoxicology Assessment

Results of PBT assessment

1-Tetradecene : Non-classified PBT substance, Non-classified vPvB substance

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

1-Hexadecene	: Non-classified PBT substance, Non-classified vPvB substance
1-Octadecene	: Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information	: No data available

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product	: 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.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Other information	: OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y
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SECTION 15: Regulatory information**National legislation**

SARA 311/312 Hazards : Acute Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

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

SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.

SARA 313 Ingredients : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

US State Regulations

Pennsylvania Right To Know : No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right To Know : No components are subject to the New Jersey Right to Know Act.

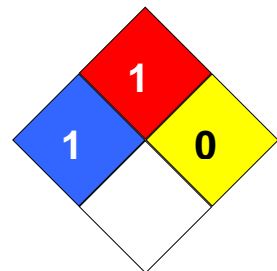
California Prop. 65 Ingredients : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status

Europe REACH	:	On the inventory, or in compliance with the inventory
United States of America TSCA	:	On the inventory, or in compliance with the inventory
Canada DSL	:	On the inventory, or in compliance with the inventory
Australia AICS	:	On the inventory, or in compliance with the inventory
New Zealand NZIoC	:	On the inventory, or in compliance with the inventory
Japan ENCS	:	On the inventory, or in compliance with the inventory
Korea KECI	:	On the inventory, or in compliance with the inventory
Philippines PICCS	:	On the inventory, or in compliance with the inventory
China IECSC	:	On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0



AlphaPlus® C14-16-18 Blend

Version 1.3

Revision Date 2015-02-04

Further information

Legacy SDS Number : 6855

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		