

## Safety Data Sheet Isopropanol 99%

Version 1.7

Revision Date: 02/22/2017

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : Isopropanol 99%

#### Recommended use of the chemical and restrictions on use

Recommended use : Alcohol solvent

#### Manufacturer or supplier's details

**Company** : Nexeo Solutions, LLC.  
**Address** : 3 Waterway Square Place Suite 1000  
The Woodlands, TX. 77380  
United States of America

#### Emergency telephone number:

Health North America: 1-855-NEXEO4U (1-855-639-3648)

Health International: 1-855-NEXEO4U (1-855-639-3648)

Transport North America: CHEMTREC (1-800-424-9300)

**Additional Information:** : Responsible Party: Product Safety Group  
E-Mail: msds@nexeosolutions.com  
SDS Requests: 1-855-429-2661  
SDS Requests Fax: 1-281-500-2370  
Website: www.nexeosolutions.com

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 2

Eye irritation : Category 2A

Specific target organ toxicity  
- single exposure : Category 3 (Central nervous system)

#### GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equip-

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ment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

#### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

#### Hazardous components

| CAS-No. | Chemical Name     | Weight % |
|---------|-------------------|----------|
| 67-63-0 | Isopropyl alcohol | 90 - 100 |

Any Concentration shown as a range is due to batch variation.

Synonyms : Isopropyl alcohol,

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.  
If unconscious place in recovery position and seek medical

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|                         |                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | advice.                                                                                                                                                                                                                           |
| In case of skin contact | : If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                                                                            |
| In case of eye contact  | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                     |
| If swallowed            | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Do not induce vomiting without medical advice. |

### SECTION 5. FIREFIGHTING MEASURES

|                                               |                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical                                                                                                                                                                                                                                                                                                   |
| Unsuitable extinguishing media                | : High volume water jet                                                                                                                                                                                                                                                                                                                                                         |
| Specific hazards during fire-fighting         | : Do not allow run-off from fire fighting to enter drains or water courses.                                                                                                                                                                                                                                                                                                     |
| Hazardous combustion products                 | : Carbon oxides<br>formaldehyde<br>corrosive vapors<br>Nitrogen oxides (NO <sub>x</sub> )                                                                                                                                                                                                                                                                                       |
| Further information                           | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>For safety reasons in case of fire, cans should be stored separately in closed containments.<br>Use a water spray to cool fully closed containers. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.<br>Use personal protective equipment.                                                                                                                                                                                                                                                                  |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                         |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Ensure adequate ventilation.<br>Remove all sources of ignition. |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|

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- Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Container may be opened only under exhaust ventilation hood.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking.  
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

| CAS-No. | Components | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis |
|---------|------------|----------------------------------|------------------------------------------------|-------|
|         |            |                                  |                                                |       |

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|         |                   |      |                        |           |
|---------|-------------------|------|------------------------|-----------|
| 67-63-0 | Isopropyl alcohol | TWA  | 200 ppm                | ACGIH     |
|         |                   | STEL | 400 ppm                | ACGIH     |
|         |                   | TWA  | 400 ppm<br>980 mg/m3   | NIOSH REL |
|         |                   | ST   | 500 ppm<br>1,225 mg/m3 | NIOSH REL |
|         |                   | TWA  | 400 ppm<br>980 mg/m3   | OSHA Z-1  |
|         |                   | TWA  | 400 ppm<br>980 mg/m3   | OSHA P0   |
|         |                   | STEL | 500 ppm<br>1,225 mg/m3 | OSHA P0   |

#### Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators 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 : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

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

Appearance : liquid

Colour : Clear, Colorless

Odour : alcohol-like, characteristic

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|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| Odour Threshold                               | : 200 ppm                                                         |
| pH                                            | : No data available                                               |
| Freezing Point (Melting point/freezing point) | : -88 °C (-126 °F)                                                |
| Boiling Point (Boiling point/boiling range)   | : 82 - 83 °C (180 - 181 °F)<br>(1013 hPa)                         |
| Flash point                                   | : 12 °C (54 °F)<br>Method: Tag closed cup                         |
| Evaporation rate                              | : < 3.9<br>(Butyl Acetate = 1)                                    |
| Flammability (solid, gas)                     | : No data available                                               |
| Upper explosion limit                         | : 13 %(V)                                                         |
| Lower explosion limit                         | : 2 %(V)                                                          |
| Vapour pressure                               | : < 45.4 mmHg @ 20 - 25 °C (68 - 77 °F)                           |
| Relative vapour density                       | : < 2.1 @ 15 - 20 °C (59 - 68 °F)<br>(Air = 1.0)                  |
| Relative density                              | : 0.78 - 0.79 @ 20 °C (68 °F)<br>Reference substance: (water = 1) |
| Density                                       | : 0.78 - 0.79 g/cm <sup>3</sup> @ 20 °C (68 °F)                   |
| Solubility(ies)<br>Water solubility           | : completely miscible                                             |
| Solubility in other solvents                  | : No data available                                               |
| Partition coefficient: n-octanol/water        | : log Pow: 0.05 @ 25 °C (77 °F)                                   |
| Auto-ignition temperature                     | : 399 - 425 °C                                                    |
| Thermal decomposition                         | : No data available                                               |
| Viscosity<br>Viscosity, dynamic               | : 2.4 mPa.s @ 20 °C (68 °F)                                       |
| Viscosity, kinematic                          | : 2.66 mm <sup>2</sup> /s @ 25 °C (77 °F)                         |
| Surface tension                               | : 22.7 mN/m, 20 °C                                                |

## SECTION 10. STABILITY AND REACTIVITY

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|                                    |                                                                                                                                                  |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : No dangerous reaction known under conditions of normal use.                                                                                    |
| Chemical stability                 | : Stable under normal conditions.                                                                                                                |
| Possibility of hazardous reactions | : Vapours may form explosive mixture with air.                                                                                                   |
| Conditions to avoid                | : Keep away from heat, flame, sparks and other ignition sources.                                                                                 |
| Incompatible materials             | : Strong acids<br>Aldehydes<br>Oxidizing agents<br>Rubber<br>Oils<br>Plastics<br>Amines<br>Metals<br>Halogenated compounds<br>Peroxides<br>Bases |
| Hazardous decomposition products   | : Carbon oxides<br>Sulphur oxides                                                                                                                |

## SECTION 11. TOXICOLOGICAL INFORMATION

### Skin corrosion/irritation

#### Components:

**67-63-0:**

Species: Rabbit

Result: Irritating to skin.

### Serious eye damage/eye irritation

#### Components:

**67-63-0:**

Species: Rabbit

Result: Irritating to eyes.

### 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.

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|              |                                                                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>NTP</b>   | 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. |
| <b>ACGIH</b> | Confirmed animal carcinogen with unknown relevance to humans                                                                            |
|              | 64-17-5 Ethanol                                                                                                                         |

#### STOT - single exposure

##### Components:

##### **67-63-0:**

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

#### 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.

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

No data available

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

##### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: 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).

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I

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#### Substances

Remarks: 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).

Additional ecological information : No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14. TRANSPORT INFORMATION

### DOT (Department of Transportation):

UN1219, ISOPROPANOL, 3, II

### IATA (International Air Transport Association):

UN1219, ISOPROPANOL, 3, II

### IMDG (International Maritime Dangerous Goods):

UN1219, ISOPROPANOL, 3, II, Flash Point:12 °C(54 °F)

## SECTION 15. REGULATORY INFORMATION

**WHMIS Classification** : B2: Flammable liquid  
D2B: Toxic Material Causing Other Toxic Effects

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

#### CERCLA Reportable Quantity

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

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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|                             |                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>SARA 311/312 Hazards</b> | : Fire Hazard<br>Immediate (Acute) Health Hazard                                                          |
| <b>SARA 302</b>             | : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |
| <b>SARA 313</b>             | : The following components are subject to reporting levels established by SARA Title III, Section 313:    |
|                             | 67-63-0 Isopropyl alcohol                                                                                 |

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

67-63-0 Isopropyl alcohol

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### US State Regulations

##### Massachusetts Right To Know

|         |                   |            |
|---------|-------------------|------------|
| 67-63-0 | Isopropyl alcohol | 90 - 100 % |
|---------|-------------------|------------|

##### Pennsylvania Right To Know

|         |                   |            |
|---------|-------------------|------------|
| 67-63-0 | Isopropyl alcohol | 90 - 100 % |
|---------|-------------------|------------|

##### New Jersey Right To Know

|         |                   |            |
|---------|-------------------|------------|
| 67-63-0 | Isopropyl alcohol | 90 - 100 % |
| 64-17-5 | Ethanol           | 0.1 - 1 %  |

##### 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 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  |

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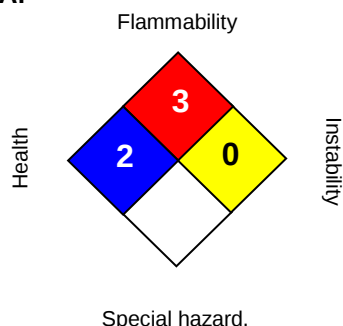
KECI : On the inventory, or in compliance with the inventory

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

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

### SECTION 16. OTHER INFORMATION

#### NFPA:



#### HMIS III:

|                 |   |
|-----------------|---|
| HEALTH          | 2 |
| FLAMMABILITY    | 3 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

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Legacy SDS: : R0001444, 100000027693

#### Material number:

16117149, 16116321, 16115241, 20287, 86910, 20290, 55958, 16106620, 16104761, 16104654, 16103959, 16103960, 16067514, 16067645, 16067644, 16101490, 16098885, 16076497, 16070429, 16067144, 16062664, 16062658, 16056234, 16056233, 16056232, 16056231, 16056230, 16056236, 16056235, 16056229, 16056228, 16061245, 16053485, 16052635, 16049720, 16030493, 16030184, 16020147, 16010158, 772812, 772811, 749963, 744289, 744288, 744287, 737212, 728214, 717444, 713300, 667236, 667235, 638919, 628350, 622971, 620243, 607424, 604761, 598538, 584582, 574318, 554170, 554086, 554045, 554336, 554300, 550689, 549773, 554335, 554291, 554272, 554257, 554206, 554169, 554149, 554085, 554371, 556671, 547315, 551361, 544760, 508619, 508618, 508414, 55018, 73136, 55939, 55835, 56756, 105079, 71262, 88592, 54882, 104163, 56760, 88703, 88700, 105097, 87779, 56758, 71396

Key or legend to abbreviations and acronyms used in the safety data sheet

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|        |                                                          |       |                                                                                      |
|--------|----------------------------------------------------------|-------|--------------------------------------------------------------------------------------|
| 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%                                                             |