

**Cyclohexane**

Version 2.7

Revision Date 2014-09-23

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

Product Name : Cyclohexane  
Material : 1015388, 1098296, 1080331, 1059057, 1026806, 1025303,  
1026803, 1026805

**Company** : Chevron Phillips Chemical Company LP  
10001 Six Pines Drive  
The Woodlands, TX 77380

**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****GHS Classification and labelling according to JISZ 7252-2009 and JIS Z 7253-2012 (GHS 2011)****Classification**


: Flammable liquids, Category 2  
Skin irritation, Category 2  
Eye irritation, Category 2A  
Reproductive toxicity, Category 2  
Specific target organ systemic toxicity - single exposure,  
Category 3  
Aspiration hazard, Category 1  
Acute aquatic toxicity, Category 1

**Labeling**

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Symbol(s)	:	
Signal Word	:	Danger
Hazard Statements	:	H225: Highly flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H361: Suspected of damaging fertility or the unborn child. H371: May cause damage to organs (Vasculature). H400: Very toxic to aquatic life.
Precautionary Statements	:	<p><b>Prevention:</b></p> P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. 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/ equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P260: Do not breathe dust/fume/gas/mist/vapor/spray. P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
		<p><b>Response:</b></p> P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P311: IF exposed or concerned: Call a POISON CENTER or doctor/ physician. P308 + P313: IF exposed or concerned: Get medical advice/ attention. P331: Do NOT induce vomiting. P332 + P313: If skin irritation occurs: Get medical advice/ attention. P337 + P313: If eye irritation persists: Get medical advice/ attention. P362 + P364: Take off contaminated clothing and wash it before reuse. P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P391: Collect spillage.

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**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.

**SECTION 3: Composition/information on ingredients**

Synonyms : Not Established

Molecular formula : C<sub>6</sub>H<sub>12</sub>

Chemical Name	CAS-No.	Concentration	ENCS/ISHL number
Cyclohexane	110-82-7	99.9 % - 100%	3-2233

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

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.

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 : -18.3 °C (-0.9 °F)  
Method: closed cup

Autoignition temperature : 260 °C (500 °F)

Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

Unsuitable extinguishing media : High volume water jet.

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- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
- Fire and explosion protection : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Hazardous decomposition products : Carbon Dioxide. Carbon oxides.

**SECTION 6: Accidental release measures**

- Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors 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 for 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****Handling**

- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/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. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. Review all operations, which have the

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potential to generating and accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106 "Flammable and Combustible Liquids"; National Fire Protection Association (NFPA 77), "Recommended Practice on Static Electricity"; and/or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising Out of Static, Lightning, and stray Currents".

Advice on protection against fire and explosion : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

**Storage**

Requirements for storage areas and containers : 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****Ingredients with workplace control parameters**

JP

Ingredients	Basis	Value	Control parameters	Note
Cyclohexane	JP OEL JSOH	OEL-M	150 ppm, 520 mg/m <sup>3</sup>	

**Personal protective equipment**

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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Eye protection	: Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
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**

Physical state	: Liquid
Color	: Colorless
Odor	: chlorform-like,irritating

**Safety data**

Flash point	: -18.3 °C (-0.9 °F) Method: closed cup
Lower explosion limit	: 1.3 %(V)
Upper explosion limit	: 8 %(V)
Oxidizing properties	: no
Autoignition temperature	: 260 °C (500 °F)
Thermal decomposition	
Molecular formula	: C <sub>6</sub> H <sub>12</sub>
Molecular weight	: 84.18 g/mol
pH	: Not applicable
pour point	: No data available
Melting point/range	: 6.59 °C (43.86 °F)
Boiling point/boiling range	: 80.7 °C (177.3 °F)
Vapor pressure	: 3.26 PSI at 37.8 °C (100.0 °F)
Relative density	: 0.78, 15.6 °C(60.1 °F)
Density	: 0.8 g/cm <sup>3</sup>
Water solubility	: Soluble in hydrocarbon solvents, natural oils, fats, and waxes; insoluble in water.
Partition coefficient: n-	: No data available

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octanol/water  
 Viscosity, kinematic : 0.953 cSt  
 at 37.8 °C (100.0 °F)

Relative vapor density : 2.9  
 (Air = 1.0)

Evaporation rate : 1.95

Percent volatile : > 99 %

**Other information**

Conductivity : < 5 pSm

**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 : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.  
 Oxidizing solids. Oxidizing liquids.

Hazardous decomposition products : Carbon Dioxide  
 Carbon oxides

Other data : No decomposition if stored and applied as directed.

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

Cyclohexane : LD50: > 5,000 mg/kg  
 Species: rat  
 Sex: male and female  
 Method: OECD Test Guideline 401

**Acute inhalation toxicity**

Cyclohexane : LC50: >32,880 mg/m<sup>3</sup> Exposure time: 4 h  
 Species: rat  
 Sex: male and female  
 Test atmosphere: vapor  
 Method: OECD Test Guideline 403

**Cyclohexane  
 Skin irritation**

: May cause skin irritation in susceptible persons.

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**Cyclohexane  
Eye irritation**

: No adverse effects expected.  
Vapors may cause irritation to the eyes, respiratory system and the skin.

**Sensitization**

Cyclohexane : Did not cause sensitization on laboratory animals.

**Repeated dose toxicity**

Cyclohexane : Species: rat  
Application Route: Inhalation  
Dose: 0, 500, 2000, 7000 ppm  
Exposure time: 90 day  
Number of exposures: 6 h/d, 5 d/wk  
NOEL: 2000 ppm

Species: rat, Male and female  
Sex: Male and female  
Application Route: Inhalation  
Dose: 0, 500, 2,000, 7000 ppm  
Exposure time: 13-14 wk  
Number of exposures: 6 hr/d, 5 d/wk  
NOEL: 7000 ppm

Species: mouse, Male and female  
Sex: Male and female  
Application Route: Inhalation  
Dose: 0, 500, 2000, 7000 ppm  
Exposure time: 13-14 wk  
Number of exposures: 6 hr/d, 5 d/wk  
NOEL: 2000 ppm  
Target Organs: Blood

**Reproductive toxicity**

Cyclohexane : Species: rat  
Application Route: Inhalation  
Dose: 0, 500, 2000, 7000 ppm  
Number of exposures: 6 hr/d, 5 d/wk  
Method: OECD Test Guideline 416  
NOAEL Parent: 500 ppm  
NOAEL F1: 7000 ppm  
NOAEL F2: 7000 ppm

**Developmental Toxicity**

Cyclohexane : Species: rat  
Application Route: Inhalation  
Dose: 0, 500, 2,000, 7,000 PPM  
Number of exposures: 6 hr/d  
Test period: GD 6-15  
Method: OECD Guideline 414  
NOAEL Teratogenicity: 7,000 ppm  
NOAEL Maternal: 500 ppm



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Species: rabbit  
 Application Route: Inhalation  
 Dose: 0, 500, 2,000, 7,000 PPM  
 Number of exposures: 6 hr/d  
 Test period: GD 6-18  
 Method: OECD Guideline 414  
 NOAEL Teratogenicity: 7,000 ppm  
 NOAEL Maternal: 500 ppm

**Cyclohexane****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**

## Cyclohexane

: Carcinogenicity: Not classifiable as a human carcinogen.  
 Mutagenicity: Did not show mutagenic effects in animal experiments.  
 Teratogenicity: Did not show teratogenic effects in animal experiments.  
 Reproductive toxicity: No toxicity to reproduction

**Cyclohexane****Further information**

: 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****Toxicity to fish**

## Cyclohexane

: LC50: 4.53 mg/l  
 Exposure time: 96 h  
 Species: Pimephales promelas (fathead minnow)  
 Method: OECD Test Guideline 203

**Toxicity to daphnia and other aquatic invertebrates**

## Cyclohexane

: EC50: 0.9 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 Method: OECD Test Guideline 202

**Toxicity to algae**

## Cyclohexane

: EbC50: 3.4 mg/l  
 Exposure time: 72 h  
 Species: Selenastrum capricornutum (algae)

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NOEC: 0.925 mg/l  
 Exposure time: 72 h  
 Species: Pseudokirchneriella subcapitata  
 Method: OECD Test Guideline 201

M-Factor  
 cyclohexane : 1

**Bioaccumulation**

Cyclohexane : Bioconcentration factor (BCF): 167  
 This material is not expected to bioaccumulate.

**Biodegradability**

Cyclohexane : 77 %  
 Testing period: 28 d  
 Method: OECD Test Guideline 301  
 This material is expected to be readily biodegradable.

**Ecotoxicology Assessment**

Acute aquatic toxicity  
 Cyclohexane : Very toxic to aquatic life.

Chronic aquatic toxicity  
 Cyclohexane : Very toxic to aquatic life with long lasting effects.

Toxicity Data on Soil  
 Cyclohexane : No data available

Other organisms relevant to the environment  
 Cyclohexane : No data available

Impact on Sewage Treatment  
 Cyclohexane : No data available

Results of PBT assessment  
 Cyclohexane : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological  
 information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations**

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

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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 : The product should not be allowed to enter drains, water courses or the soil. 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. Do not burn, or use a cutting torch on, the empty drum.

**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)**

UN1145, CYCLOHEXANE, 3, II, RQ (CYCLOHEXANE)

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

UN1145, CYCLOHEXANE, 3, II, (-18.3 °C), MARINE POLLUTANT, (CYCLOHEXANE)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN1145, CYCLOHEXANE, 3, II

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

UN1145, CYCLOHEXANE, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (CYCLOHEXANE)

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

UN1145, CYCLOHEXANE, 3, II, ENVIRONMENTALLY HAZARDOUS, (CYCLOHEXANE)

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

UN1145, CYCLOHEXANE, 3, II, ENVIRONMENTALLY HAZARDOUS, (CYCLOHEXANE)

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

<b>Other information</b>	<b>: Cyclohexane, S.T. 2, Cat. Y</b>
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**SECTION 15: Regulatory information****National legislation****Poisonous and Deleterious Substances Control Law**

: Not relevant

**Industrial Safety and Health Law**

Substances Subject to be Notified Names : cyclohexane( 232 )

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) : Inflammable Substance

Hazardous Substances Subject to Labeling Requirements : Not relevant

Ordinance on Prevention of Organic Solvent Poisoning : Not relevant

**Chemical Substance Control Law**

: Not relevant

**Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof**

: Not relevant

**Other regulations**

Fire Service Law : Flammable liquids  
Type 1 petroleums  
Hazardous rank II

Explosive Control Law : Not relevant

Vessel Safety Law : Flammable liquids (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

Aviation Law : Flammable liquids (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

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**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****Further information**

Legacy SDS Number : 895

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 Material 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	TWA	Time Weighted Average

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	Substances in China		
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%		