



## Safety Data Sheet

### Acetone

Version 2.0

Revision Date: 4/28/2021

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : Acetone  
**Product Use Description** : Intermediate

#### Manufacturer or supplier's details

**Company** : Southeastern Chemical Industries Group LLC  
**Address** : 660 Oak Place  
Port Orange, FL 32127  
United States of America  
386.760.9332

**Emergency telephone number:**  
Transport North America: INFOTRAC 800.535.5053

#### 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, hot surfaces, sparks, open



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flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
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.

#### Potential Health Effects

##### 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.

###### ACGIH

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

###### 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 by NTP.

#### Emergency Overview

<b>DANGER</b>	
Appearance	liquid
Colour	clear, colourless
Odour	sweet, pungent
Hazard Summary	No information available.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

#### Hazardous components

CAS-No.	Chemical Name	Concentration (%)
67-64-1	Acetone	90 - 100



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**Molecular formula** : C<sub>3</sub>H<sub>6</sub>O  
**Synonyms** : Solv Acetone/Acetone Hydrocarbon Free,

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#### SECTION 4. FIRST AID MEASURES

General advice	Remove person from the area of contact. Contact a doctor/physician if you are concerned or feel unwell.
If inhaled	Remove to fresh air and keep in a position comfortable for breathing.
In case of skin contact	Rinse with water for several minutes. Remove contaminated clothing and wash before reuse.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
If swallowed	Rinse mouth. Never give anything by mouth to an unconscious person. Immediately contact a POISON CENTER or doctor/physician.

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#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) 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. No hazardous combustion products are known
Hazardous combustion products	: No hazardous combustion products are known
Specific extinguishing methods	: Use a water spray to cool fully closed containers.



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- 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.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for fire-fighting if necessary.

#### **NFPA Flammable and Combustible Liquids Classification:**

Flammable Liquid Class IB

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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### SECTION 7. HANDLING AND STORAGE

- 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.



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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 (Form of exposure)	Control parameters / Permissible concentration	Basis
67-64-1	Acetone	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		TWA	250 ppm 590 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m <sup>3</sup>	OSHA Z-1
		TWA	750 ppm 1,800 mg/m <sup>3</sup>	OSHA P0
		STEL	1,000 ppm 2,400 mg/m <sup>3</sup>	OSHA P0

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Acetone	67-64-1	Acetone	Urine	End of shift	50 mg/l	ACGIH BEI

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#### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.  
In the case of vapour formation use a respirator with an approved filter.
- 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.

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#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : clear, colourless
- Odour : sweet, pungent
- Odour Threshold : 62 ppm
- pH : 5 - 7 @ 100 %
- Freezing Point (Melting point/freezing point) : -94 °C (-137 °F)
- Boiling Point (Boiling point/boiling range) : 56 °C (133 °F)
- Flash point : -20 °C (-4 °F)



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Evaporation rate	: 5.6 - 6.06 n-Butyl Acetate
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 13 %(V)
Lower explosion limit	: 2.1 %(V)
Vapour pressure	: 231 mmHg @ 25 °C (77 °F) 181 mmHg @ 20 °C (68 °F)
Relative vapour density	: 2 @ 20 °C (68 °F) AIR=1
Relative density	: 0.792 @ 20 °C (68 °F)
Density	: 0.792 g/cm <sup>3</sup> @ 20 °C (68 °F)
Bulk density	: 790 - 792 kg/m <sup>3</sup> @ 20 °C (68 °F)
Solubility(ies)	
Water solubility	: completely soluble
Solubility in other sol- vents	: soluble Solvent: Alcohol  soluble Solvent: Chloroform  soluble Solvent: Ether  soluble Solvent: Dimethylformamide
Partition coefficient: n- octanol/water	: log Pow: 0.2
Auto-ignition temperature	: 540 °C
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 0.32 mPa.s @ 25 °C (77 °F)



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#### SECTION 10. STABILITY AND REACTIVITY

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	: Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials	: Bases Oxidizing agents Reducing agents Acids alkalis
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), dense black smoke.

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#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

###### **Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

###### **Components:**

###### **67-64-1:**

Acute oral toxicity : LD50 (rat): 5,800 mg/kg  
Symptoms: tremors

Acute inhalation toxicity : LC50 (rat): 76.0 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 : > 7,426 mg/kg

##### Skin corrosion/irritation

###### **Product:**





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Remarks: May cause skin irritation in susceptible persons.

#### **Components:**

##### **67-64-1:**

Species: rabbit

Exposure time: 24 h

Classification: Not irritating to skin

Method: In vivo

Result: Mild skin irritation

Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

#### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: Eye irritation, Category 2

#### **Components:**

##### **67-64-1:**

Species: rabbit

Result: Slightly irritating to eyes

Exposure time: 24 h

Classification: Irritating to eyes

Remarks: Eye irritation

#### **Respiratory or skin sensitisation**

#### **Components:**

##### **67-64-1:**

Test Type: Maximization test

Species: guinea pig

Assessment: Does not cause skin sensitisation.

Result: Did not cause sensitisation on laboratory animals.

#### **Germ cell mutagenicity**

#### **Components:**

##### **67-64-1:**

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay  
Test species: Mouse lymphoma cells  
Metabolic activation: Without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

: Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471



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Result: negative

: Test Type: Chromosome aberration test in vitro  
Test species: Chinese hamster ovary (CHO)  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse  
Application Route: Oral  
Exposure time: 13 wk  
Dose: 5,000, 10,000, 20,000 ppm  
Result: negative

Germ cell mutagenicity-Assessment : Animal testing did not show any mutagenic effects.

### Carcinogenicity

#### Components:

##### **67-64-1:**

Species: mouse, (female)  
Application Route: Dermal  
Exposure time: 365 d (90%) or 424 d (100%)  
Dose: 0.1ml 90(71mg) or 100% (79mg)  
Frequency of Treatment: 3 times per wk  
NOAEL: 79

Result: did not display carcinogenic properties

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### Reproductive toxicity

#### Components:

##### **67-64-1:**

Effects on fertility : Species: rat, male  
Application Route: oral  
Dose: 0, 5000, 10000 mg/L  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: LOAEL: 10,000  
Fertility: 10,000

Effects on foetal development : Species: rat  
Application Route: Inhalation  
Dose: 0, 440, 2200, 11000 ppm



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Frequency of Treatment: 7 days/week  
General Toxicity Maternal: NOAEC: 2,200 ppm  
Teratogenicity: NOAEC: 11,000 ppm  
Embryo-foetal toxicity.: NOAEC: 2,200 ppm  
Method: OECD Test Guideline 414  
Result: No teratogenic potential.  
GLP: No data available

Reproductive toxicity - Assessment : Did not show teratogenic effects in animal experiments.

#### **STOT - single exposure**

##### **Product:**

Target Organs: Central nervous system

##### **Components:**

###### **67-64-1:**

Exposure routes: inhalation (vapour)  
Assessment: May cause drowsiness or dizziness.

#### **STOT - repeated exposure**

##### Product:

No data available

##### Components:

No data available

#### **Repeated dose toxicity**

##### **Components:**

###### **67-64-1:**

Species: mouse, male  
NOAEL: 20000  
Application Route: Oral  
Exposure time: 13 wk  
Number of exposures: daily  
Dose: 1250, 2500, 5000, 10000, 20000  
Method: OECD Test Guideline 408  
GLP: No data available

Species: mouse, female  
NOAEL: 20000  
LOAEL: 50000  
Application Route: Oral  
Exposure time: 13 wk  
Number of exposures: daily



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Dose: 2500, 5000, 10000, 20000, 5000  
Method: OECD Test Guideline 408  
GLP: No data available

Repeated dose toxicity - Assessment : Causes mild skin irritation., Causes serious eye irritation.

#### Aspiration toxicity

##### **Product:**

May be fatal if swallowed and enters airways.

#### 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.

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## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### **Components:**

##### **67-64-1:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 6,100 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7,630 mg/l  
Exposure time: 48 h  
Test substance: Acetone

Toxicity to algae : Remarks: No data available

#### Persistence and degradability

##### **Components:**

##### **67-64-1:**

Biodegradability : Remarks: Readily biodegradable

#### Bioaccumulative potential

##### **Components:**



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#### **67-64-1:**

Partition coefficient: n-octanol/water : log Pow: -0.24

#### **Mobility in soil**

No data available

#### **Other adverse effects**

No data available

#### **Product:**

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).

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.

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

**IATA (International Air Transport Association):** UN1090, ACETONE, 3 , II

**IMDG (International Maritime Dangerous Goods):** UN1090, ACETONE, 3, II, Flash Point:-20 °C(-4 °F)



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**DOT (Department of Transportation):** UN1090, ACETONE, 3, II

### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Flammable liquid, Mild skin irritant, Carcinogen

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

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetone	67-64-1	5000	5000

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

**SARA 311/312 Hazards** : Fire Hazard  
Chronic Health Hazard

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

**SARA 313** : 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

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

67-56-1	Methanol	0.0061 %
71-43-2	Benzene	0.005 %

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):

67-64-1	Acetone	100 %
67-56-1	Methanol	0.0061 %
71-43-2	Benzene	0.005 %

#### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:



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71-43-2 Benzene 0.005 %  
 The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

71-43-2 Benzene 0.005 %  
 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

67-64-1 Acetone 90 - 100 %  
 71-43-2 Benzene 0 - 0.1 %

#### Pennsylvania Right To Know

67-64-1 Acetone 90 - 100 %

#### New Jersey Right To Know

67-64-1 Acetone 90 - 100 %

#### California Prop 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

71-43-2 Benzene  
 67-56-1 Methanol

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

<b>1907/2006 (EU)</b>	:	n (Negative listing) (Not in compliance with the inventory)
<b>Switzerland. New notified substances and declared preparations</b>	:	y (positive listing) (The formulation contains substances listed on the Swiss Inventory)
<b>United States TSCA Inventory</b>	:	y (positive listing) (On TSCA Inventory)
<b>Canadian Domestic Substances List (DSL)</b>	:	y (positive listing) (All components of this product are on the Canadian DSL.)
<b>Australia Inventory of Chemical Substances (AICS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)



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<b>New Zealand. Inventory of Chemical Substances</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Japan. ISHL - Inventory of Chemical Substances (METI)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Korea. Korean Existing Chemicals Inventory (KECI)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>China. Inventory of Existing Chemical Substances in China (IECSC)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)



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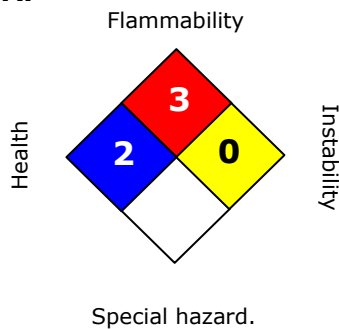
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### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA:



##### HMIS III:

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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

The information accumulated is based on the 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 Southeastern Chemical Industries Group LLC.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%



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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%