

## Safety Data Sheet

### Propyl acetate normal

Version 1.1

Revision Date: 10/23/2014

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : Propyl acetate normal  
**Product Use Description** : Solvent.

#### Manufacturer or supplier's details

**Company** : Nexeo Solutions LLC  
**Address** : 3 Waterway Square Place Suite 1000  
 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 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, hot surfaces, sparks, open

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flames and other ignition sources. No smoking.  
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): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position 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 for extinction.

#### Storage:

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

P405 Store locked up.

#### Disposal:

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

#### Potential Health Effects

Aggravated Medical Condition : None known.

Symptoms of Overexposure : Dizziness  
Unconsciousness  
Headache  
Fatigue  
Nausea

#### 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.

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<b>OSHA</b>	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.
<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.

#### Emergency Overview

<b>WARNING!</b>	
Appearance	liquid
Colour	colourless
Odour	mild, sweet, ester-like, fruit-like odor
Hazard Summary	No information available.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

##### Hazardous components

CAS-No.	Chemical Name	Concentration (%)
109-60-4	Propyl acetate	90 - 100

**Molecular formula** : C5-H10-O2

#### 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 advice.
In case of skin contact	: If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses.

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	Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Dizziness Unconsciousness Headache Fatigue Nausea

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Water spray
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.
Specific extinguishing methods	: Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Further information	: 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	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

**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.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>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 safe handling     | : Avoid formation of aerosol.<br>Do not breathe vapours/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Take precautionary measures against static discharges.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Open drum carefully as content may be under pressure.<br>Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage | : No smoking.<br>Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Observe label precautions.<br>Electrical installations / working materials must comply with the technological safety standards.  |

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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
109-60-4	Propyl acetate	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 840 mg/m <sup>3</sup>	NIOSH REL
		ST	250 ppm 1,050 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm 840 mg/m <sup>3</sup>	OSHA Z-1
		TWA	200 ppm 840 mg/m <sup>3</sup>	OSHA P0
		STEL	250 ppm 1,050 mg/m <sup>3</sup>	OSHA P0

##### 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	: colourless
Odour	: mild, sweet, ester-like, fruit-like odor
Odour Threshold	: 20 ppm
pH	: No data available
Freezing Point (Melting point/freezing point)	: -92 °C (-134 °F)
Boiling Point (Boiling point/boiling range)	: 101 - 102 °C (214 - 216 °F) (10,130 hPa)
Flash point	: 12 °C (54 °F)
Evaporation rate	: 2.3
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 8 %(V)
Lower explosion limit	: 1.7 - 2 %(V)
Vapour pressure	: 31 mbar @ 20 °C (68 °F)
Relative vapour density	: 3.5 @ 20 °C (68 °F)
Relative density	: 0.889 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: 0.888 g/cm <sup>3</sup> @ 20 °C (68 °F)
Bulk density	: No data available
Solubility(ies)	
Water solubility	: 2.3 g/l @ 20 °C (68 °F)
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Pow: 24.5 log Pow: 1.39

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Auto-ignition temperature : 380 - 457 °C 1,013 hPa  
 Thermal decomposition : No data available  
 Viscosity  
 Viscosity, dynamic : 0.58 mPa.s @ 20 °C (68 °F)

#### 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. elevated temperatures  
 Incompatible materials : Strong oxidizing agents  
 Bases  
 Amines  
 Alkali metals  
 sodium hydroxide  
 Nitric acid  
 Hazardous decomposition products : carbon dioxide and carbon monoxide  
 Hazardous decomposition products due to incomplete combustion

#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

##### Components:

##### **109-60-4:**

Acute oral toxicity : LD50 (rat, male): ca. 8,700 mg/kg  
 Acute inhalation toxicity : LC50 (rat, female): ca. 32 mg/l  
 Exposure time: 4 h  
 Acute dermal toxicity : LD50 (rabbit, male): > 17,800 mg/kg



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#### Skin corrosion/irritation

**Product:**

Remarks: May cause skin irritation in susceptible persons.

**Components:**

**109-60-4:**

Species: rabbit

Result: No skin irritation

#### Serious eye damage/eye irritation

**Product:**

Remarks: Severe eye irritation

**Components:**

**109-60-4:**

Species: rabbit

Result: Irritating to eyes.

#### Respiratory or skin sensitisation

**Components:**

**109-60-4:**

Test Type: Maximization test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

Test substance: Information given is based on data obtained from similar substances.

#### Germ cell mutagenicity

**Components:**

**109-60-4:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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#### Carcinogenicity

##### Components:

##### **109-60-4:**

Remarks: This information is not available.

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

#### Reproductive toxicity

##### Components:

##### **109-60-4:**

Effects on fertility : Species: rat, male and female  
Application Route: Inhalation  
Dose: 0, 750, 1500, 2000 ppm  
Duration of Single Treatment: 6 h  
Frequency of Treatment: 7 days/week  
General Toxicity - Parent: NOAEC: 750 ppm  
Fertility: NOAEC: 2,000 ppm  
Early Embryonic Development: NOAEC: 750 ppm  
Method: OECD Test Guideline 416  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Effects on foetal development : Species: rat  
Application Route: Inhalation  
Dose: 0, 8730, 17460 and 24940 mg/m  
Duration of Single Treatment: 18 d  
Frequency of Treatment: 7 hr/day  
General Toxicity Maternal: NOAEC: 8,730 mg/m<sup>3</sup>  
Developmental Toxicity: NOAEC: 8,730 mg/m<sup>3</sup>  
Method: OECD Test Guideline 414  
GLP: No data available  
Remarks: Information given is based on data obtained from similar substances.

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility. Embryotoxicity classification not possible from current data.

#### STOT - single exposure

Product: No data available

##### Components:

##### 109-60-4:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness.,	

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		The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	
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#### STOT - repeated exposure

**Product:** No data available

#### Components:

**109-60-4:** No data available

#### Repeated dose toxicity

#### Components:

##### **109-60-4:**

Species: rat, male and female

NOAEL: 2.35 mg/l

Application Route: inhalation (vapour)

Exposure time: 13 wk

Number of exposures: 6 h/d, 5 d/wk

Dose: 0, 2.35, 7.05 and 14.1 mg/L

GLP: yes

Remarks: Information given is based on data obtained from similar substances.

#### Aspiration toxicity

#### 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:

##### **109-60-4:**

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 60 mg/l

Exposure time: 96 h

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Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 91.5 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Analytical monitoring: yes  
Method: Static  
GLP: yes

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 672 mg/l  
Exposure time: 72 h  
Analytical monitoring: yes  
Method: Static  
GLP: yes

#### Persistence and degradability

##### Product:

Biodegradability : Test Type: aerobic  
Biodegradation: 62 %  
Exposure time: 5 d

##### Components:

###### **109-60-4:**

Biodegradability : Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Readily biodegradable.  
Biodegradation: 80 %  
Exposure time: 10 d

#### Bioaccumulative potential

##### Product:

Bioaccumulation : Remarks: The substance has low potential for bioaccumulation.

##### Components:

###### **109-60-4:**

Partition coefficient: n-octanol/water : log Pow: 1.24

#### Mobility in soil

No data available

#### Other adverse effects

No data available

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**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. 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

**IATA (International Air Transport Association):** UN1276, n-PROPYL ACETATE, 3, II, Flash Point: 12 °C(54 °F)

**IMDG (International Maritime Dangerous Goods):** UN1276, N-PROPYL ACETATE, 3, II

**DOT (Department of Transportation):** UN1276, n-PROPYL ACETATE, 3, II

#### SECTION 15. REGULATORY INFORMATION

<b>OSHA Hazards</b>	: Flammable liquid, Moderate eye irritant
<b>WHMIS Classification</b>	: B2: Flammable liquid

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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.

#### SARA 311/312 Hazards

: Fire Hazard  
Acute 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

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489).

### 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. Clean-Water 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

109-60-4	Propyl acetate	90 - 100 %
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#### Pennsylvania Right To Know

109-60-4	Propyl acetate	90 - 100 %
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#### New Jersey Right To Know

109-60-4	Propyl acetate	90 - 100 %
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#### California Prop 65

This product does not contain any chemicals known to

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State of California to cause cancer, birth defects, or any other reproductive harm.

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

<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)
<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)

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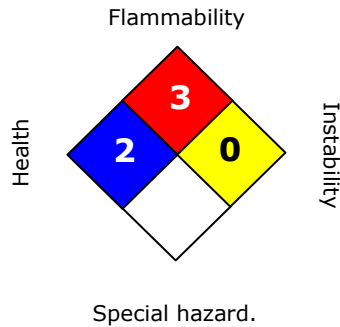
Revision Date: 10/23/2014

<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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**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 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.

**Legacy MSDS:** R0001004

**Material number:**

16062136, 16056531, 16056530, 16056529, 16056528, 16050431, 16042830, 16027677, 766967, 554347, 554260, 106914, 104819, 105905, 55946, 89523, 88707, 87789, 503229, 502476, 20230, 20229, 20228, 162298

<b>Key or legend to abbreviations and acronyms used in the safety data sheet</b>			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level



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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%