

## Safety Data Sheet Methanol

Version 1.9

Revision Date: 04/08/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : Methanol  
**Product Use Description** : Solvent., Fuel, Animal Feedstock

#### Manufacturer or supplier's details

**Company** : Famis Inc  
**Address** : 5689 NW 35<sup>th</sup> ct  
Miami FL, 33142  
United States of America

**Emergency telephone number:**  
Transport North America: CHEMTREC 800.424.9300

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 2  
Acute toxicity (Oral) : Category 3  
Acute toxicity (Inhalation) : Category 3  
Acute toxicity (Dermal) : Category 3  
Specific target organ toxicity - single exposure : Category 1 (Eyes, Central nervous system)

#### GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.



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H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled  
H370 Causes damage to organs (Eyes, Central nervous system).

Precautionary statements : **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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/ vapours/ 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.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician.  
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.  
P363 Wash contaminated clothing before reuse.  
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.  
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.

### Potential Health Effects

#### Carcinogenicity:

IARC

No component of this product present at levels greater

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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

Appearance	liquid
Colour	colourless, clear
Odour	mild, alcohol-like
Hazard Summary	No information available.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Pure substance

#### Hazardous components

CAS-No.	Chemical Name	Concentration (%)
67-56-1	Methanol	90 - 100

**Molecular formula** : C-H4-O

**Synonyms** : Methyl alcohol,

### SECTION 4. FIRST AID MEASURES

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

**If inhaled** : If unconscious place in recovery position and seek

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- medical advice.  
If symptoms persist, call a physician.  
Oxygen or artificial respiration if needed.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.  
If skin irritation persists, call a physician.
- In case of eye contact : Immediately flush eyes for at least 15 minutes. Get  
medical attention.  
Remove contact lenses.  
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.  
Take victim immediately to hospital.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam  
Water spray  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)
- 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.
- Hazardous combustion products : Carbon oxides  
toxic fumes
- Specific extinguishing methods : Use a water spray to cool fully closed containers.
- 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.

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

**NFPA Flammable and Combustible Liquids Classification:**  
Flammable Liquid Class IB

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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).

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
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.

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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
67-56-1	Methanol	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m <sup>3</sup>	NIOSH REL
		ST	250 ppm 325 mg/m <sup>3</sup>	NIOSH REL
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA Z-1
		STEL	250 ppm 325 mg/m <sup>3</sup>	OSHA P0
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA P0

##### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI

##### 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

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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
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	: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: colourless, clear
Odour	: mild, alcohol-like
Odour Threshold	: 4.2 - 8940 ppm
pH	: No data available
Freezing Point (Melting point/freezing point)	: -97.8 °C (-144.0 °F)
Boiling Point (Boiling point/boiling range)	: 64 °C (147 °F)
Flash point	: 11 °C (52 °F)
Evaporation rate	: 5.9 n-Butyl Acetate
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 36.5 %(V)
Lower explosion limit	: 6 %(V)
Vapour pressure	: 96 mmHg @ 20 °C (68 °F)

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Relative vapour density	: 1.01 @ 15 - 20 °C (59 - 68 °F) AIR=1
Relative density	: 0.791 - 0.793Reference substance: (water = 1)
Density	: No data available
Bulk density	: No data available
Solubility(ies)	
Water solubility	: completely soluble
Solubility in other sol- vents	: soluble Solvent: Benzene  soluble Solvent: Alcohol  soluble Solvent: Chloroform  soluble Solvent: Acetone  soluble Solvent: Ether
Partition coefficient: n- octanol/water	: log Pow: -0.82 - -0.66
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

### 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	: No hazards to be specially mentioned.
Conditions to avoid	: Heat, flames and sparks.



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Incompatible materials	: Strong bases strong mineral acids strong organic acids strong oxidizing agents halogenated hydrocarbons Aluminium Lead Copper alloys Zinc magnesium
Hazardous decomposition products	: carbon dioxide and carbon monoxide Formaldehyde formic acid toxic fumes

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### **Components:**

##### **67-56-1:**

Acute oral toxicity	: LD50 (rat): 100 mg/kg Assessment: The component/mixture is toxic after single ingestion.
Acute inhalation toxicity	: LC50 (rat): 5 mg/l Assessment: The component/mixture is toxic after short term inhalation.
Acute dermal toxicity	: LD50 (rabbit): 300 mg/kg Assessment: The component/mixture is toxic after single contact with skin.

#### Skin corrosion/irritation

##### **Components:**

##### **67-56-1:**

Species: rabbit  
Result: No skin irritation

#### Serious eye damage/eye irritation

##### **Components:**

##### **67-56-1:**

Species: rabbit

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Result: No eye irritation

### Respiratory or skin sensitisation

#### Components:

##### **67-56-1:**

Test Type: Maximisation Test (GPMT)

Species: guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

#### Components:

##### **67-56-1:**

Genotoxicity in vitro : Test Type: DNA damage and/or repair  
Metabolic activation: with and without metabolic activation  
Result: Ambiguous

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal  
Exposure time: Single  
Dose: 0, 1920, 3200, 4480 mg/kg  
Result: negative

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

### Carcinogenicity

#### Components:

##### **67-56-1:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### Reproductive toxicity

#### Components:

##### **67-56-1:**

Effects on fertility : Test Type: Two-generation study  
Species: rat, male and female  
Application Route: Inhalation  
Dose: 0, 0.013, 0.13, 1.3 mg/L  
Duration of Single Treatment: 20 h  
General Toxicity - Parent: NOAEC: 1.3 mg/l  
General Toxicity F1: NOAEC: 0.13 mg/l

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Reproductive toxicity - Assessment : Fertility: NOAEC: 1.3 mg/l  
 Symptoms: Effects on postnatal development.  
 Result: Animal testing did not show any effects on fertility.  
 : Fertility classification not possible from current data.  
 Embryotoxicity classification not possible from current data.

#### STOT - single exposure

**Product:** No data available

**Components:**

67-56-1:

Exposure routes:	Target Organs:	Assessment:	Remarks:
	Eyes, Central nervous system	Causes damage to organs., The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.	

#### STOT - repeated exposure

**Product:** No data available

**Components:**

67-56-1: No data available

#### Repeated dose toxicity

**Components:**

67-56-1:

Species: mouse, male and female  
 NOAEL: 1.3 mg/l  
 Application Route: Inhalation  
 Exposure time: 12 mths  
 Number of exposures: Continuous  
 Dose: 0, 0.013, 0.13, 1.3 mg/L

#### Aspiration toxicity

**Product:**

No aspiration toxicity classification

#### Further information

**Product:**

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Remarks: Solvents may degrease the skin.

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **67-56-1:**

- Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l  
Exposure time: 96 h  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): 22,000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201
- Toxicity to bacteria : IC50 (activated sludge): > 1,000 mg/l  
End point: Growth rate  
Exposure time: 3 h  
Test Type: Static  
Method: OECD Test Guideline 209

#### Persistence and degradability

##### Components:

##### **67-56-1:**

- Biodegradability : aerobic  
Result: Readily biodegradable.  
Biodegradation: 72 %  
Remarks: Readily biodegradable
- Biochemical Oxygen Demand (BOD) : 600 - 1,120 mg/g
- Chemical Oxygen Demand (COD) : 1,420 mg/g
- BOD/COD : BOD: 600 - 1120COD: 1420



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Stability in water : Hydrolysis: 91 % at 19 °C (72 h)  
Remarks: Hydrolyses on contact with water.  
Hydrolyses readily.

#### Bioaccumulative potential

##### Components:

##### **67-56-1:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 1.0  
Exposure time: 72 d  
Temperature: 20 °C  
Concentration: 5 mg/l  
Remarks: This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Partition coefficient: n-octanol/water : log Pow: -0.77

#### 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

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## 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,



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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):** UN1230, METHANOL, 3 (6.1), II, Flash Point: 11 °C(52 °F)

**IMDG (International Maritime Dangerous Goods):** UN1230, METHANOL, 3, (6.1), II

**DOT (Department of Transportation):** UN1230, Methanol, 3, II

### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Flammable liquid, Toxic by ingestion, Toxic by skin absorption

**WHMIS Classification** : B2: Flammable liquid  
D1B: Toxic Material Causing Immediate and Serious Toxic Effects

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

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methanol	67-56-1	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  
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** : The following components are subject to reporting levels established by SARA Title III, Section 313:



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67-56-1 Methanol 100 %

#### 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 100 %

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 Intermediate or Final VOC's (40 CFR 60.489):

67-56-1 Methanol 100 %

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water 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

67-56-1 Methanol 90 - 100 %

##### Pennsylvania Right To Know

67-56-1 Methanol 90 - 100 %

##### New Jersey Right To Know

67-56-1 Methanol 90 - 100 %

##### California Prop 65

67-56-1 Methanol WARNING: This product contains a chemical known to the State of California to cause birth defects or 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

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		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)
<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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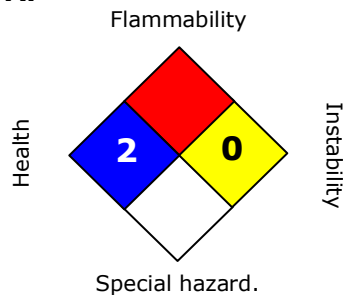
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### SECTION 16. OTHER INFORMATION

#### 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 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.

**Legacy MSDS:** R0001447, 140000001042

#### Material number:

16076584, 20298, 160329, 20303, 16056428, 16061181, 16056425, 16056426, 16056427, 16055184, 16053934, 16049742, 16048212, 16047323, 16039562, 16034861, 16032613, 16031073, 16024445, 16024444, 16021152, 16018469, 16016316, 779915, 743459, 736115, 730007, 730006, 717897, 716726, 713298, 710534, 699273, 695309, 695256, 694361, 689940, 690224, 682513, 638917, 627702, 625491, 602665, 600798, 554053, 554376, 554361, 554308, 554052, 554159, 546854, 546132, 508417, 122681, 136311, 117978, 132227, 131334, 146769, 161018, 118306, 116867, 117981, 145658, 161021, 144602, 130207, 130736, 131538, 159527, 115232, 82339, 160328, 82470, 115098, 159524, 115229, 143136, 508297, 504381, 504224, 501342, 39841, 22244, 22243, 20305, 20304, 20302, 20301, 20300, 20299, 20297, 500031

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 Chem-	LOAEL	Lowest Observed Adverse Effect



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	ical Substances		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%