



# Safety Data Sheet

## Startex Denatured Alcohol

Version 1.1

Revision Date: 03/26/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : Startex Denatured Alcohol  
**Product Use Description** : Alcohol solvent.

#### Manufacturer or supplier's details

**Company** : Nexeo Solutions LLC - STARTEX™  
**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  
Acute toxicity (Oral) : Category 4  
Acute toxicity (Inhalation) : Category 4  
Acute toxicity (Dermal) : Category 4  
Eye irritation : Category 2A  
Carcinogenicity : Category 2  
Reproductive toxicity : Category 2  
Specific target organ toxicity - single exposure : Category 1 (Eyes, Central nervous system)  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)


#### GHS Label element

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- Hazard pictograms : 
- Signal word : Danger
- Hazard statements : H225 Highly flammable liquid and vapour.  
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled  
H319 Causes serious eye irritation.  
H335 + H336 May cause respiratory irritation, and drowsiness or dizziness.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H371 May cause damage to organs.
- Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P210 Keep away from open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P242 Use only non-sparking tools.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P281 Use personal protective equipment as required.  
**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
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.  
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
**Disposal:**



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

### Potential Health Effects

#### Carcinogenicity:

##### IARC

Group 2B: Possibly carcinogenic to humans

64742-49-0 Naphtha (pet), hydrotreated It

64742-89-8 Solvent naphtha (pet), It aliph.

##### 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, white
Odour	ester-like
Hazard Summary	No information available.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

CAS-No.	Chemical Name	Concentration (%)
64-17-5	Ethanol	70 - 90
67-56-1	Methanol	20 - 30
141-78-6	Ethyl acetate	1 - 5
64742-49-0	Naphtha (pet), hydrotreated It	0.1 - 1
64742-89-8	Solvent naphtha (pet), It aliph.	0.1 - 1
142-82-5	Heptane	0.1 - 1



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#### SECTION 4. FIRST AID MEASURES

- |                         |                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------|
| General advice          | : Show this safety data sheet to the doctor in attendance.                                    |
| If inhaled              | : If symptoms persist, call a physician.                                                      |
| In case of skin contact | : If on skin, rinse well with water.<br>If on clothes, remove clothes.                        |
| In case of eye contact  | : Flush eyes with water as a precaution.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : Keep respiratory tract clear.<br>Take victim immediately to hospital.                       |

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#### SECTION 5. FIREFIGHTING MEASURES

- |                                               |                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical                                                                                                                                                                                                                                          |
| Unsuitable extinguishing media                | : High volume water jet                                                                                                                                                                                                                                                                                                |
| Specific hazards during firefighting          | : Do not allow run-off from fire fighting to enter drains or water courses.                                                                                                                                                                                                                                            |
| Hazardous combustion products                 | : Carbon oxides                                                                                                                                                                                                                                                                                                        |
| 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.<br>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 firefighting if necessary.                                                                                                                                                                                                                                               |



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**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).                     |

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#### 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>Container may be opened only under exhaust ventilation hood.<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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



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Containers which are opened must be carefully re-sealed 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
64-17-5	Ethanol	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m <sup>3</sup>	OSHA P0
		STEL	1,000 ppm	ACGIH
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
141-78-6	Ethyl acetate	TWA	400 ppm	ACGIH
		TWA	400 ppm 1,400 mg/m <sup>3</sup>	NIOSH REL
		TWA	400 ppm 1,400 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 1,400 mg/m <sup>3</sup>	OSHA P0
64742-49-0	Naphtha (pet), hydrotreated lt	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
64742-89-8	Solvent naphtha (pet), lt aliph.	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1



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		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
142-82-5	Heptane	TWA	85 ppm 350 mg/m <sup>3</sup>	NIOSH REL
		C	440 ppm 1,800 mg/m <sup>3</sup>	NIOSH REL
		TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
		STEL	500 ppm 2,000 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 : 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
- 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, white
Odour	: ester-like
Odour Threshold	: No data available
pH	: No data available
Freezing Point (Melting point/freezing point)	: No data available
Boiling Point (Boiling point/boiling range)	: 63 - 79 °C (145 - 174 °F)
Flash point	: -1 °C (30 °F)
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: 4.9 %(V)
Vapour pressure	: 61.3 mmHg @ 20 °C (68 °F)
Relative vapour density	: 1.5(Air = 1.0)
Relative density	: 0.797Reference substance: (water = 1)
Density	: No data available
Bulk density	: No data available
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 293 °C





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Thermal decomposition : No data available

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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 : Keep away from heat, flame, sparks and other ignition sources.

Incompatible materials : Alkali metals  
Ammonia  
Oxidizing agents  
peroxides  
Strong acids

Hazardous decomposition products : Carbon oxides

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#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

###### Product:

Acute oral toxicity : Acute toxicity estimate : 422.91 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 12.69 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 1,269 mg/kg  
Method: Calculation method

###### Components:

**64-17-5:**



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Acute oral toxicity : LD50 (rat): 7,060 mg/kg

Acute inhalation toxicity : LC50 (rat): 124.7 mg/l

Acute dermal toxicity : Remarks: No data available

#### **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.

#### **141-78-6:**

Acute oral toxicity : LD50 (rat): 5,620 mg/kg

Acute inhalation toxicity : LD L0 (rat, male and female): > 22.5 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.  
Remarks: Not classified

Acute dermal toxicity : LD50 (rabbit): > 20,000 mg/kg

#### **64742-49-0:**

Acute oral toxicity : LD50 (rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

#### **64742-89-8:**

Acute oral toxicity : LD50 (rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: No data available



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Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

**142-82-5:**

Acute oral toxicity : LD50 (rat, male and female): 5,000 mg/kg  
Method: OECD Test Guideline 401  
Symptoms: Salivation  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (rat, male and female): 73.5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

#### Skin corrosion/irritation

**Components:**

**64-17-5:**

Species: rabbit  
Result: No skin irritation

**67-56-1:**

Species: rabbit  
Result: No skin irritation

**141-78-6:**

Species: rabbit  
Result: Mild skin irritation

**64742-49-0:**

Species: rabbit  
Result: Irritating to skin.

**64742-89-8:**

Species: rabbit  
Exposure time: 4 h  
Result: Irritating to skin.

**142-82-5:**

Species: rabbit  
Exposure time: 24 h



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Method: OECD Test Guideline 404  
Result: Irritating to skin.  
GLP: yes  
Remarks: Based on a similar product formulation.

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

##### **Product:**

Result: Irritating to eyes.

##### **Components:**

###### **64-17-5:**

Species: rabbit  
Result: Irritating to eyes.

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

Species: rabbit  
Result: No eye irritation

###### **141-78-6:**

Species: rabbit  
Result: Irritating to eyes.

###### **64742-49-0:**

Species: rabbit  
Result: Irritating to eyes.

###### **64742-89-8:**

Species: rabbit  
Result: Irritating to eyes.

###### **142-82-5:**

Species: rabbit  
Result: Irritating to eyes.  
Method: OECD Test Guideline 405  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

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

##### **Components:**

###### **64-17-5:**

Test Type: lymph node assay  
Species: mouse  
Method: OECD Test Guideline 429  
GLP: No data available  
Remarks: Did not cause sensitisation on laboratory animals.



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

Test Type: Maximisation Test (GPMT)

Species: guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

#### **141-78-6:**

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

#### **64742-49-0:**

Test Type: Buehler Test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

#### **64742-89-8:**

Test Type: Buehler Test

Species: guinea pig

Result: Did not cause sensitisation on laboratory animals.

#### **142-82-5:**

Test Type: Maximization test

Species: guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Remarks: Based on a similar product formulation.

### **Germ cell mutagenicity**

#### **Components:**

##### **64-17-5:**

Genotoxicity in vitro : Test Type: Mammalian cell gene mutation assay  
Test species: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: No data available

Genotoxicity in vivo : Test Type: Dominant lethal assay  
Test species: mouse (male)  
Application Route: Oral  
Dose: 10 or 40% ethanol in water  
Method: OECD Test Guideline 478  
Result: negative  
GLP: No data available

Germ cell mutagenicity-Assessment : Mutagenicity classification not possible from current data



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#### 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.

#### 141-78-6:

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No data available

: 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  
GLP: No data available

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: Chinese hamster (male and female)  
Application Route: Oral  
Dose: 2500 mg/kg bw  
Method: OECD Test Guideline 474  
Result: negative  
GLP: No data available

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

#### 64742-49-0:

Germ cell mutagenicity-Assessment : Mutagenicity classification not possible from current data

#### 64742-89-8:



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Germ cell mutagenicity-Assessment : Mutagenicity classification not possible from current data

**142-82-5:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test species: Rat liver  
Metabolic activation: Without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

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

Germ cell mutagenicity-Assessment : Did not show mutagenic effects in animal experiments.

#### Carcinogenicity

**Components:**

**64-17-5:**

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

**67-56-1:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**141-78-6:**

Species: mouse, (male and female)  
Application Route: Intraperitoneal injection  
Exposure time: 8 wk  
Dose: 150 and 750 mg/kg bw/injection  
Frequency of Treatment: 3 days/week  
Result: did not display carcinogenic properties

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

**64742-49-0:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**64742-89-8:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**142-82-5:**



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Remarks: This information is not available.

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

#### Reproductive toxicity

##### Components:

##### **64-17-5:**

Effects on fertility : Test Type: Two-generation study  
Species: mouse, male and female  
Application Route: oral  
Dose: 5, 10 and 15% v/v in water  
General Toxicity - Parent: NOAEL: 15 % diet  
General Toxicity F1: NOAEL: 10 % diet  
Symptoms: reduced litter size Reduced sperm motility in F1 generation  
Method: OECD Test Guideline 416  
GLP: No data available

Effects on foetal development : Species: rat  
Application Route: Inhalation  
Dose: 10,000, 16,000 or 20,000 ppm  
General Toxicity Maternal: NOAEL: 16,000 ppm  
Teratogenicity: NOAEL: > 20,000 ppm  
Symptoms: No malformations were observed.  
Method: OECD Test Guideline 414  
GLP: No data available

Reproductive toxicity - Assessment : Fertility classification not possible from current data.  
Embryotoxicity classification not possible from current data.

##### **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  
Fertility: NOAEC: 1.3 mg/l  
Symptoms: Effects on postnatal development.  
Result: Animal testing did not show any effects on fertility.

Reproductive toxicity - Assessment : Fertility classification not possible from current data.  
Embryotoxicity classification not possible from current data.





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#### 141-78-6:

Effects on fertility

: Test Type: Two-generation study  
Species: mouse, male and female  
Application Route: Oral  
Dose: 5, 10 and 15% v/v in water  
General Toxicity - Parent: NOAEL: 15 % diet  
General Toxicity F1: NOAEL: 10 % diet  
Symptoms: reduced litter size  
Method: OECD Test Guideline 416  
GLP: No data available  
Remarks: Information given is based on data obtained from similar substances.

Species: rat, male  
Application Route: Inhalation  
Dose: 350, 750, 1500 ppm  
Duration of Single Treatment: 6 h  
Frequency of Treatment: 5 days/week  
General Toxicity - Parent: NOAEL: 1,500 ppm  
Result: Animal testing did not show any effects on fertility.  
GLP: yes

Effects on foetal development

: Species: rat  
Application Route: Inhalation  
Dose: 10,000, 16,000 or 20,000 ppm  
General Toxicity Maternal: NOAEL: 16,000 ppm  
Teratogenicity: NOAEL: > 20,000 ppm  
Symptoms: No malformations were observed.  
Method: OECD Test Guideline 414  
GLP: No data available  
Remarks: Information given is based on data obtained from similar substances.

Reproductive toxicity - Assessment

: No toxicity to reproduction  
Animal testing did not show any effects on foetal development.

#### 64742-49-0:

Reproductive toxicity - Assessment

: Fertility classification not possible from current data.  
Embryotoxicity classification not possible from current data.

#### 64742-89-8:

Reproductive toxicity - Assessment

: Fertility classification not possible from current data.  
Embryotoxicity classification not possible from current data.

#### 142-82-5:

Effects on fertility

: Test Type: Two-generation study



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Species: rat, male and female  
Application Route: vapour  
Dose: 0, 900, 3000, 9000 ppm  
Frequency of Treatment: 5 days/week  
General Toxicity - Parent: NOAEC: 3,000 ppm  
General Toxicity F1: NOAEC: 3,000 ppm  
Fertility: NOAEC: 9,000 ppm  
Symptoms: Reduced maternal body weight gain. Reduced offspring weight gain.  
Method: OECD Test Guideline 416  
Result: No reproductive effects.  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

Effects on foetal development : Species: mouse  
Application Route: inhalation (vapour)  
Dose: 0, 900, 3000, 9000 ppm  
Duration of Single Treatment: 10 d  
Frequency of Treatment: 6 hr/day  
General Toxicity Maternal: NOAEC: 900 ppm  
Developmental Toxicity: NOAEC: 3,000 ppm  
Symptoms: Skeletal malformations.  
Method: OECD Test Guideline 414  
GLP: yes  
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:**

64-17-5:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	
Inhalation	Respiratory system	May cause respiratory irritation., The	



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		substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.	
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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.	

141-78-6:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

64742-49-0:

Exposure routes:	Target Organs:	Assessment:	Remarks:
Inhalation	Central nervous system	May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.	

64742-89-8: No data available

142-82-5:

Exposure routes:	Target Organs:	Assessment:	Remarks:



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Inhalation	Central nervous system	May cause drowsiness or dizziness., 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:**

**64-17-5:**No data available

**67-56-1:**No data available

**141-78-6:**No data available

**64742-49-0:**No data available

**64742-89-8:**No data available

**142-82-5:**No data available

### Repeated dose toxicity

#### **Components:**

##### **64-17-5:**

Species: rat, male and female  
NOAEL: 10 ml/kg  
Application Route: Oral  
Exposure time: 7 or 14 wk  
Number of exposures: 2 times/d, 7 d/wk  
Dose: 5, 10, 20ml/kg of 16.25% etoh  
Method: OECD Test Guideline 408  
GLP: yes

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

Species: mouse, male and female  
NOAEL: 1.3 mg/l



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Application Route: Inhalation  
Exposure time: 12 mths  
Number of exposures: Continuous  
Dose: 0, 0.013, 0.13, 1.3 mg/L

#### **141-78-6:**

Species: rat, male and female  
NOAEL: 900 mg/kg  
LOAEL: 3,600 mg/kg  
Application Route: Oral  
Exposure time: 90-92 d  
Number of exposures: daily  
Dose: 0, 300, 900 and 3600 mg/kg bw  
GLP: yes

Species: rat, male and female  
NOAEL: 350 ppm  
Application Route: Inhalation  
Exposure time: 94 d  
Number of exposures: 6 h/d, 5 d/wk  
Dose: 0, 350, 750, 1500 ppm  
Symptoms: Local irritation

#### **64742-89-8:**

Species: rat, male and female  
NOAEL: 1402  
Application Route: inhalation (vapour)  
Test atmosphere: vapour  
Exposure time: 13 weeks  
Number of exposures: 6 hours/day, 5 days/week  
Dose: 322, 1402, 9869 mg/m<sup>3</sup>  
GLP: yes  
Target Organs: Kidney  
Symptoms: Nasal and ocular discharge

#### **142-82-5:**

Species: rat, male  
NOAEL: 12470 mg/m<sup>3</sup>  
Application Route: inhalation (vapour)  
Exposure time: 16 wks  
Number of exposures: 12 h/d, 7 d/wk  
Dose: 0, 12470 mg/3

Repeated dose toxicity - : Causes skin irritation.  
Assessment

#### **Aspiration toxicity**

#### **Components:**

#### **64-17-5:**



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No aspiration toxicity classification

**141-78-6:**

No aspiration toxicity classification

**64742-49-0:**

May be fatal if swallowed and enters airways.

**64742-89-8:**

May be fatal if swallowed and enters airways.

**142-82-5:**

Aspiration Toxicity - Category 1

**Further information**

**Product:**

Remarks: Solvents may degrease the skin.

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## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Components:**

**64-17-5:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)):  
15,300 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia): 5,012 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: No data available

**67-56-1:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 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)): > 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
<b>141-78-6:</b>	
Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 220 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 2,300 mg/l Exposure time: 24 h
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): 4,300 mg/l Exposure time: 24 h
<b>64742-49-0:</b>	
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 4.5 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): 3.71 mg/l Exposure time: 96 h
Ecotoxicology Assessment	
Acute aquatic toxicity	: Toxic to aquatic life.
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.

#### 64742-89-8:



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- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4.5 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Analytical monitoring: yes
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7 mg/l  
Exposure time: 96 h  
Test Type: static test
- Ecotoxicology Assessment  
Acute aquatic toxicity : Toxic to aquatic life.
- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **142-82-5:**

- Toxicity to fish : LC50 (Carassius auratus (goldfish)): 4 mg/l  
Exposure time: 24 h  
Remarks: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Remarks: Very toxic to aquatic organisms.
- Toxicity to algae : Remarks: No data available
- Ecotoxicology Assessment  
Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### **Persistence and degradability**

##### **Components:**

##### **64-17-5:**

- Biodegradability : Result: Readily biodegradable.

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

- Biodegradability : aerobic  
Result: Readily biodegradable.  
Biodegradation: 72 %  
Remarks: Readily biodegradable





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Biochemical Oxygen Demand (BOD) : 600 - 1,120 mg/g

Chemical Oxygen Demand (COD) : 1,420 mg/g

BOD/COD : BOD: 600 - 1120COD: 1420

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

#### 141-78-6:

Biodegradability : anaerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.

#### 64742-49-0:

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 20 mg/l  
Biodegradation: 74.30 %  
Exposure time: 56 d  
GLP: yes  
Remarks: Inherently biodegradable.

#### 64742-89-8:

Biodegradability : Concentration: 49.2 mg/l  
Result: Readily biodegradable.  
Biodegradation: 77 %  
Testing period: 2 d  
Exposure time: 28 d  
GLP: yes

#### 142-82-5:

Biodegradability : Primary biodegradation  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Biodegradation: 100 %  
Testing period: 2 d  
Exposure time: 25 d  
Remarks: Readily biodegradable

### Bioaccumulative potential

#### Components:

##### 64-17-5:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.



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#### 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

#### 141-78-6:

Partition coefficient: n-octanol/water : log Pow: 0.68 (25 °C)  
pH: 7

#### 64742-49-0:

Partition coefficient: n-octanol/water : Remarks: No data available

#### 64742-89-8:

Partition coefficient: n-octanol/water : log Pow: 2.13 - 4.85 (25 °C)

#### 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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.



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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):** UN1987, ALCOHOLS, N.O.S., (ETHANOL, METHANOL) , 3, II, Flash Point:-1 °C(30 °F)

**IMDG (International Maritime Dangerous Goods):** UN1987, ALCOHOLS, N.O.S., (ETHANOL, METHANOL), 3, II

**DOT (Department of Transportation):** UN1987, ALCOHOLS, N.O.S., (ETHANOL, METHANOL), 3, II

### SECTION 15. REGULATORY INFORMATION

**OSHA Hazards** : Flammable liquid, Carcinogen, Harmful by ingestion., Harmful by skin absorption., Moderate eye irritant, Moderate respiratory irritant, Reproductive hazard, Harmful by inhalation.

**WHMIS Classification** : B2: Flammable liquid  
D1B: Toxic Material Causing Immediate and Serious Toxic Effects  
D2B: Toxic Material Causing Other 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	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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



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### SARA 311/312 Hazards

: Fire Hazard  
Chronic Health 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:

67-56-1	Methanol	23.64 %
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### 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	23.64 %
110-54-3	Hexane	0.0033 %
108-88-3	Toluene	0.0003 %
100-41-4	Ethylbenzene	0.0659 PPM
71-43-2	Benzene	0.0659 PPM

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):

64-17-5	Ethanol	75.2 %
67-56-1	Methanol	23.64 %
141-78-6	Ethyl acetate	4.26 %
110-82-7	Cyclohexane	0.0514 %
108-88-3	Toluene	0.0003 %
100-41-4	Ethylbenzene	0.0659 PPM
71-43-2	Benzene	0.0659 PPM

### Clean Water Act

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

110-82-7	Cyclohexane	0.0514 %
108-88-3	Toluene	0.0003 %
100-41-4	Ethylbenzene	0.0659 PPM
71-43-2	Benzene	0.0659 PPM

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

110-82-7	Cyclohexane	0.0514 %
108-88-3	Toluene	0.0003 %
100-41-4	Ethylbenzene	0.0659 PPM
71-43-2	Benzene	0.0659 PPM

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



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### US State Regulations

#### Massachusetts Right To Know

64-17-5	Ethanol	70 - 90 %
67-56-1	Methanol	20 - 30 %
141-78-6	Ethyl acetate	1 - 5 %

#### Pennsylvania Right To Know

64-17-5	Ethanol	70 - 90 %
67-56-1	Methanol	20 - 30 %
141-78-6	Ethyl acetate	1 - 5 %
110-82-7	Cyclohexane	0 - 0.1 %

#### New Jersey Right To Know

64-17-5	Ethanol	70 - 90 %
67-56-1	Methanol	20 - 30 %
141-78-6	Ethyl acetate	1 - 5 %

#### California Prop 65

	WARNING! This product contains a chemical known to the State of California to cause cancer.
100-41-4	Ethylbenzene
71-43-2	Benzene
	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
67-56-1	Methanol
108-88-3	Toluene
71-43-2	Benzene

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

<b>United States TSCA Inventory</b>	:	y (positive listing) (On TSCA Inventory)
<b>Canadian Domestic Substances List (DSL)</b>	:	y (positive listing) (This product contains the following components that are not on the Canadian DSL nor NDSL.)
<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,

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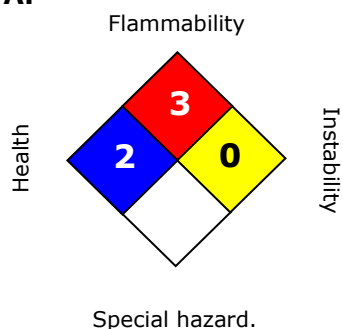
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		or in compliance with the inventory)
<b>Japan. ENCS - Existing and New Chemical Substances Inventory</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>Korea. Korean Existing Chemicals Inventory (KECI)</b>	:	y (positive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

### 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



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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.

#### Material number:

16061938, 16056001, 16056000, 16055999, 16055998, 16055997

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 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%



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