Material Safety Data Sheet
Methanol

Version 1.1
Revision Date: 07/09/2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Methanol
CAS Name: 67-56-1
Product Use Description: Fuel

Manufacturer or supplier's details
Company: Nexeo Solutions LLC
Address: 3 Waterway Square Place Suite 1000
Woodlands, Tx. 77380

Emergency telephone number:
Health North America: 1-855-NEXEO4U (1-855-639-3642)
Health International: 1-855-NEXEO4U (1-855-639-3642)
Transport North America: CHEMTREC 800.424.9300

Additional Information:
Responsible Party: Product Safety Group
E-Mail: msds@nexeosolutions.com
MSDS Requests: 1-855-429-2661
MSDS Requests Fax: 1-281-500-2370
Website: www.nexeosolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids: Category 2
Acute toxicity (Oral): 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.
H301 + H311 Toxic if swallowed or in contact with skin
Precautionary statements:

**Prevention:**
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 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.
- P280 Wear protective gloves/ eye protection/ face protection.

**Response:**
- P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

**Potential Health Effects**

**Carcinogenicity:**

**IARC**
- No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

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

**NTP**
- No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Emergency Overview**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>colourless, clear</td>
</tr>
<tr>
<td>Odour</td>
<td>mild, alcohol-like</td>
</tr>
<tr>
<td>Hazard Summary</td>
<td>No information available</td>
</tr>
</tbody>
</table>
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>Methanol</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

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 medical advice.
If symptoms persist, call a physician.

In case of skin contact: If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact: Flush eyes with water as a precaution.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear.
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
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media: High volume water jet
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| Specific hazards during firefighting | Do not allow run-off from fire fighting to enter drains or water courses. No hazardous combustion products are known |
| Hazardous combustion products | No hazardous combustion products are known |
| Specific extinguishing methods | Use a water spray to cool fully closed containers. |
| Further information | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. |
| Special protective equipment for firefighters | Wear self-contained breathing apparatus for 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. |
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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.
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

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>Methanol</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>250 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm 260 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>250 ppm 325 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm 260 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>250 ppm 325 mg/m3</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm 260 mg/m3</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
</table>

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<table>
<thead>
<tr>
<th>Methanol</th>
<th>67-56-1</th>
<th>Methanol</th>
<th>In urine</th>
<th>End of shift (As soon as possible after exposure ceases)</th>
<th>15 mg/l</th>
<th>ACGIH BEI</th>
</tr>
</thead>
</table>

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

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 workplace.

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)

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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)
Relative vapour density : 1.01 @ 15 - 20 °C (59 - 68 °F)
AIR=1
Relative density : 0.791 - 0.793 Reference substance: (water = 1)
Density : No data available
Bulk density : No data available
Solubility(ies)
   Water solubility : completely soluble
   Solubility in other solvents:
      Solvent: Benzene
      Soluble
      Solvent: Alcohol
      Soluble
      Solvent: Chloroform
Partition coefficient: n-octanol/water : log Pow: -0.82 - -0.66
Auto-ignition temperature : 385 °C
Thermal decomposition : No data available

SECTION 10. STABILITY AND REACTIVITY
Reactivity : No dangerous reaction known under conditions of
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Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: Vapours may form explosive mixture with air.
Conditions to avoid: Heat, flames and sparks.
Incompatible materials: Oxidizing agents, Aluminium, Strong acids, Strong bases, Metals

Hazardous decomposition products: carbon dioxide and carbon monoxide, formic acid, formaldehyde, toxic fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:
67-56-1:
Acute oral toxicity: Acute toxicity estimate: 100 mg/kg
Method: Expert judgement

Acute inhalation toxicity: LC 50: 5 mg/l

Acute dermal toxicity: Acute toxicity estimate: 300 mg/kg
Method: Expert judgement

Skin corrosion/irritation

Components:
67-56-1:
Species: rabbit
Exposure time: 20 h
Classification: Not irritating to skin
Method: In vivo
Result: Not irritating to skin
Remarks: Not irritating to skin
Serious eye damage/eye irritation

**Components:**

**67-56-1:**
Species: rabbit
Result: Not irritating to eyes
Classification: Not irritating to eyes
Method: In vivo
Remarks: No eye irritation

Respiratory or skin sensitisation

**Components:**

**67-56-1:**
Test Type: Maximisation Test (GPMT)
Species: guinea pig
Assessment: Does not cause skin sensitisation.
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
Remarks: not sensitising

Germ cell mutagenicity

**Components:**

**67-56-1:**
Genotoxicity in vitro:
- Test Type: Ames test
  - Metabolic activation: with and without metabolic activation
  - Result: negative
- Test Type: Chromosome aberration test in vitro
  - Test species: Chinese hamster lung fibroblasts
  - Metabolic activation: Without metabolic activation
  - Result: negative
- Test Type: Mammalian cell gene mutation assay
  - Test species: Chinese hamster lung fibroblasts
  - Metabolic activation: with and without metabolic activation
  - Result: negative
- 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

Test Type: DNA damage and/or repair
Test species: mouse (male)
Cell type: Bone marrow
Application Route: Intraperitoneal
Exposure time: 1 or 15 d
Dose: 0, 2000 mg/kg bw
Result: negative

Test Type: Chromosome aberration assay in vivo
Test species: mouse (male)
Cell type: lung cells
Application Route: inhalation (vapour)
Exposure time: 5 d, 6 h/d
Dose: 0, 800, 4000 ppm
Result: negative

Germ cell mutagenicity - Assessment: In vivo tests did not show mutagenic effects

Carcinogenicity

Components: 67-56-1:
Species: mouse, (male and female)
Application Route: inhalation (vapour)
Exposure time: 18 mths
Dose: 0, 0.013, 0.13, 1.3 mg/L
Frequency of Treatment: 19 h/d, 7 d/wk
NOAEL: >= 1.3 mg/l
Result: did not display carcinogenic properties

Carcinogenicity - Assessment: Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

Components: 67-56-1:
Effects on fertility: Test Type: Fertility
Species: monkey, female
Application Route: Inhalation
Dose: 0, 0.27, 0.8, 2.39 mg/L
Duration of Single Treatment: 3 h
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Frequency of Treatment: 7 days/week
General Toxicity - Parent: NOAEC: 2.39 mg/l
General Toxicity F1: NOAEC: 2.39 mg/l
Fertility: NOAEC: 2.39 mg/l
Result: No reproductive effects.

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.

Effects on foetal development:
Species: rat
Application Route: inhalation (vapour)
Dose: 0, 6.65, 13.3, 26.6 mg/L
Duration of Single Treatment: 20 d
Frequency of Treatment: 7 hr/day
General Toxicity Maternal: NOAEC: 13.3 mg/L
Teratogenicity: NOAEC: 6.65 mg/L
Symptoms: Maternal toxicity, Skeletal and visceral variations.

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:
No data available

STOT - repeated exposure
Product:
No data available

Components:
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

Repeated dose toxicity - Toxic if swallowed, in contact with skin or if inhaled

**Asspiration toxicity**

**Components:**

**67-56-1:**
No aspiration toxicity classification

Further information

**Product:**
Remarks: Solvents may degrease the skin.

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### 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

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
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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

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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, 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.

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**SECTION 14. TRANSPORT INFORMATION**

**IATA (International Air Transport Association):** UN1230, METHANOL, 3 (6.1), II

**IMDG (International Maritime Dangerous Goods):** UN1230, METHANOL, 3(6.1), II,
Flash Point: 11 °C (52 °F)

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

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**SECTION 15. REGULATORY INFORMATION**

**OSHA Hazards:** Flammable liquid, Teratogen

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

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>5000</td>
<td>5000</td>
</tr>
</tbody>
</table>

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

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

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

SARA 313
: The following components are subject to reporting levels established by SARA Title III, Section 313:

| 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 SOCMI 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. 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

| 67-56-1 | Methanol | 90 - 100 % |

Pennsylvania Right To Know

| 67-56-1 | Methanol | 90 - 100 % |

New Jersey Right To Know
**California Prop 65**
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Reporting Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1907/2006 (EU)</td>
<td>n (Negative listing)</td>
</tr>
<tr>
<td>Switzerland. New notified substances and declared preparations</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>United States TSCA Inventory</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Canadian Domestic Substances List (DSL)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Australia Inventory of Chemical Substances (AICS)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>New Zealand. Inventory of Chemical Substances</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Japan. ENCS - Existing and New Chemical Substances Inventory</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Japan. ISHL - Inventory of Chemical Substances (METI)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Korea. Korean Existing Chemicals Inventory (KECI)</td>
<td>y (positive listing)</td>
</tr>
</tbody>
</table>
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| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | y (positive listing) (On the inventory, or in compliance with the inventory) |
| China. Inventory of Existing Chemical Substances in China (IECSC) | y (positive listing) (On the inventory, or in compliance with the inventory) |

SECTION 16. OTHER INFORMATION

Further information

NFPA:
Flammability

HMIS III:

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: R0001447

Material number:
20298, 160329, 20303, 16056428, 16061973, 16061181, 16056437, 16056425, 16056426, 16056421, 16056436, 16056427, 16055184, 16053934, 16049742, 16048212, 16047323, 16039562, 16034861, 16032613, 16031073, 16030058,

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Key or legend to abbreviations and acronyms used in the safety data sheet

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration 50%</td>
</tr>
<tr>
<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
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<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
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<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
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<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
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<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
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<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
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<tr>
<td>&lt;=</td>
<td>Less Than or Equal To</td>
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<td>LC50</td>
<td>Lethal Concentration 50%</td>
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<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
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<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
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<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>NZIoC</td>
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<tr>
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<td>No Observed Effect Concentration</td>
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<tr>
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<td>Occupational Safety &amp; Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<tr>
<td>PICCS</td>
<td>Philipines Inventory of Commercial Chemical Substances</td>
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<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<tr>
<td>RCRA</td>
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<td>STEL</td>
<td>Short-term Exposure Limit</td>
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<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
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<tr>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
</tr>
<tr>
<td>UVVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
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