SAFETY DATA SHEET
BUTYL ACETATE

_VERSION 1.0_ Date: 06/01/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BUTYL ACETATE
Product Use Description: SOLVENT

Manufacturer or supplier's details

Company: Solvents and Petroleum Services, Inc.
Address: 1405 Brewerton Rd, Syracuse, NY 13208
800-315-4467
mark@solventsandpetroleum.com

Emergency telephone number:
Transport North America: CHEMTREC 800.424.9300

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids: Category 3

GHS Label element
Hazard pictograms:

Signal word: Warning
Hazard statements: H226 Flammable liquid and vapour.

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.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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.
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 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
WARNING!

<table>
<thead>
<tr>
<th>Appearance</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odour</td>
<td>sweet, fruit-like odor</td>
</tr>
<tr>
<td>Hazard Summary</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
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Hazardous components

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-86-4</td>
<td>n-Butyl acetate</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

Molecular formula : C6-H12-O2

SECTION 4. FIRST AID MEASURES

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

If inhaled : Move to fresh air. Consult a physician after significant exposure. If unconscious place in recovery position and seek medical advice.

In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes. Call a physician if irritation develops or persists.

In case of eye contact : Flush eyes with water as a precaution. 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.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Water spray

Unsuitable extinguishing media : High volume water jet
Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Specific extinguishing methods: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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. Exposure to decomposition products may be a hazard to health.

NFPA Flammable and Combustible Liquids Classification: Flammable Liquid Class IC

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: 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. Avoid exposure - obtain special instructions before use. 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. 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>123-86-4</td>
<td>n-Butyl acetate</td>
<td>TWA</td>
<td>150 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>200 ppm 950 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>150 ppm 710 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>150 ppm 710 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>150 ppm 710 mg/m3</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>200 ppm 950 mg/m3</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

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 workplace.

Hygiene measures: Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Colour: Colorless
Odour: sweet, fruit-like odor
Odour Threshold: 0.04 ppm
pH: 6.2 @ 20 °C (68 °F)
Freezing Point (Melting point/range): -74 °C (-101 °F)
Boiling Point (Boiling point.boiling range): 125 °C (257 °F)
Flash point: 27 °C (81 °F)

Evaporation rate: 1
n-Butyl Acetate

Flammability (solid, gas): No data available

Burning rate: No data available

Upper explosion limit: 7.5 % (V)
Lower explosion limit: 1.2 % (V)
Vapour pressure: 15 hPa @ 20 °C (68 °F)
Relative vapour density: 4.0 @ 20 °C (68 °F)
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Relative density : 0.877 @ 25 °C (77 °F)
Density : 0.881 g/cm³ @ 20 °C (68 °F)
Bulk density : No data available
Solubility(ies)
   Water solubility : 5.3 g/l slightly soluble @ 20 °C (68 °F)
   Solubility in other solvents : No data available
   Partition coefficient: n-octanol/water : log Pow: 2.3
Auto-ignition temperature : 407 °C
Thermal decomposition : No data available
Viscosity
   Viscosity, dynamic : 0.73 mPa.s @ 20 °C (68 °F)
   Viscosity, kinematic : 0.83 mm²/s @ 20 °C (68 °F)
Surface tension : 61.3 mN/m, 20 °C

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 : None known. Vapours may form explosive mixture with air. Stable under recommended storage conditions.
Conditions to avoid : Heat, flames and sparks.
Incompatible materials : strong bases
   Strong oxidizing agents
   strong reducing agents
Hazardous decomposition products : carbon dioxide and carbon monoxide
SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

**Components:**

123-86-4:

- **Acute oral toxicity**
  - LD50 (rat): 10,760 mg/kg
  - Method: OECD Test Guideline 423
  - GLP: no

- **Acute inhalation toxicity**
  - LC50 (rat, male and female): > 21 mg/l
  - Exposure time: 4 h
  - Test atmosphere: vapour
  - Method: OECD Test Guideline 403
  - GLP: yes

- **Acute dermal toxicity**
  - LD50 (rabbit, male and female): > 14,112 mg/kg
  - Method: OECD Test Guideline 402
  - GLP: yes

**Skin corrosion/irritation**

**Components:**

123-86-4:

- **Species:** rabbit
- **Classification:** Not irritating to skin
- **Method:** OECD Test Guideline 404
- **Result:** Not irritating to skin
- **GLP:** no

**Serious eye damage/eye irritation**

**Components:**

123-86-4:

- **Species:** rabbit
- **Classification:** Not irritating to eyes
- **GLP:** yes

**Respiratory or skin sensitisation**

**Components:**

123-86-4:

- **Species:** guinea pig
- **Result:** Did not cause sensitisation on laboratory animals.
Germ cell mutagenicity

**Components:**

**123-86-4:**

**Genotoxicity in vitro**
- Test Type: Chromosome aberration test in vitro
- Test species: Chinese hamster lung fibroblasts
- Metabolic activation: 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: mouse (male and female)
- Application Route: Oral
- Dose: 500, 1000, 2000 mg/kg bw
- Method: OECD Test Guideline 474
- Result: negative
- GLP: yes
- Test substance: Information given is based on data obtained from similar substances.

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

Carcinogenicity

**Components:**

**123-86-4:**

**Remarks:** This information is not available.

**Carcinogenicity - Assessment**
- Contains no ingredient listed as a carcinogen

Reproductive toxicity

**Components:**

**123-86-4:**

**Effects on fertility**
- Species: rat, male and female
- Application Route: Inhalation
- Dose: 0, 750, 1500, 2000 ppm
- Duration of Single Treatment: 6 h
- Frequency of Treatment: 7 days/week
- General Toxicity - Parent: NOAEC: 750 ppm
- General Toxicity F1: NOAEC: 750 ppm
- Fertility: NOAEC: 2,000 ppm
- Early Embryonic Development: NOAEC: 750 ppm
- Symptoms: Effect on reproduction capacity.
- Method: OECD Test Guideline 416
- GLP: yes
Effects on foetal development:

Species: rat, male and female
Application Route: vapour
Dose: 500, 1500, 3000 ppm
Duration of Single Treatment: 6 h
Frequency of Treatment: 5 days/week
Symptoms: Skeletal malformations.
Result: Teratogenic effects.
GLP: yes

Reproductive toxicity - Assessment:

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

**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:**
123-86-4:
Species: rat, male and female
NOAEL: 500
Application Route: inhalation (vapour)
Exposure time: 13 wk
Number of exposures: 6 h/d, 5d/wk
Dose: 500, 1500, 3000 ppm
GLP: yes
Symptoms: oral or nasal discharge

**Aspiration toxicity**

**Further information**

**Product:**
Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components: 123-86-4:

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 18 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 44 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae: EC50 (Desmodesmus subspicatus (green algae)): 674.7 mg/l
End point: Growth rate
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 23 mg/l
Exposure time: 21 d

Toxicity to bacteria: EC 50 (Tetrahymena pyriformis (Ciliate)): 356 mg/l
Exposure time: 40 h
Test Type: Static

Persistence and degradability

Product:
Biodegradability: Test Type: aerobic
Biodegradation: 83 %
Exposure time: 28 d
Remarks: Readily biodegradable, according to appropriate OECD test.

Components: 123-86-4:
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<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodegradability</td>
<td>Biodegradation: 83 %</td>
</tr>
<tr>
<td>Exposure time</td>
<td>28 d</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 301D</td>
</tr>
<tr>
<td>Chemical Oxygen Demand (COD)</td>
<td>0.00169 mg/g</td>
</tr>
<tr>
<td>BOD/COD</td>
<td>BOD/COD: 72 %</td>
</tr>
<tr>
<td>Theoretical Oxygen Demand (ThOD)</td>
<td>0.0022 mg/g</td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

**Components:**
123-86-4:
Bioaccumulation: Species: Fish
Bioconcentration factor (BCF): 15
Partition coefficient: n-octanol/water: log Pow: 1.82

**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, contact Solvents & Petroleum Service, Inc.
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): UN1123, BUTYL ACETATES, 3 , III

IMDG (International Maritime Dangerous Goods): UN1123, BUTYL ACETATES, 3, III,
Flash Point: 27 °C (81 °F)

DOT (Department of Transportation): UN1123, BUTYL ACETATES, 3, III

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid, Moderate skin irritant, Moderate eye irritant

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>n-Butyl acetate</td>
<td>123-86-4</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
Acute Health Hazard
Chronic Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
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):

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-86-4</td>
<td>n-Butyl acetate</td>
<td>100</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-86-4</td>
<td>n-Butyl acetate</td>
<td>100</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-86-4</td>
<td>n-Butyl acetate</td>
<td>100</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-86-4</td>
<td>n-Butyl acetate</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

Pennsylvania Right To Know

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-86-4</td>
<td>n-Butyl acetate</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

New Jersey Right To Know

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-86-4</td>
<td>n-Butyl acetate</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

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>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1907/2006 (EU)</td>
<td>n (Negative listing) (Not in compliance with the inventory)</td>
</tr>
<tr>
<td>Switzerland. New notified substances and declared preparations</td>
<td>y (positive listing) (The formulation contains substances listed on the Swiss Inventory)</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>United States TSCA Inventory</th>
<th>: y (positive listing) (On TSCA Inventory)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian Domestic Substances List (DSL)</td>
<td></td>
</tr>
<tr>
<td>Australia Inventory of Chemical Substances (AICS)</td>
<td></td>
</tr>
<tr>
<td>New Zealand. Inventory of Chemical Substances</td>
<td></td>
</tr>
<tr>
<td>Japan. ENCS - Existing and New Chemical Substances Inventory</td>
<td></td>
</tr>
<tr>
<td>Japan. ISHL - Inventory of Chemical Substances (METI)</td>
<td></td>
</tr>
<tr>
<td>Korea. Korean Existing Chemicals Inventory (KECI)</td>
<td></td>
</tr>
<tr>
<td>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td></td>
</tr>
<tr>
<td>China. Inventory of Existing Chemical Substances in China (IECSC)</td>
<td></td>
</tr>
</tbody>
</table>
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SECTION 16. OTHER INFORMATION

Further information

NFPA: Health Flammability Instability

HMIS III:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

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 SPS.

Material number:
16050369, 16049717, 16042518, 104050, 16001714, 788173, 780367, 776833, 710123, 699236, 659494, 604109, 604105, 598680, 554345, 88419, 71288, 71285, 72969, 105750, 89524, 151195, 148902, 139099, 165363, 503165, 502502, 20225, 20227, 20226

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>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<tr>
<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
</tr>
<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
</tr>
<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>
</tr>
<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
</tr>
<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
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<tr>
<td>IC</td>
<td>Less Than or Equal To</td>
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<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
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<tr>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
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<tr>
<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
</tr>
<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
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<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
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<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
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<tr>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
</tr>
<tr>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
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