

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Ultra Kleen Spray Equipment Solution

**Product Code:** 5110, 5111, 5112, 5113, 6827

**Synonyms:** None

**SDS No.:** 820016

### 1.2. Intended Use of the Product

For cleaning coating equipment (e.g. spray guns); lacquer thinner. For industrial use only. Not for human or veterinary use. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Manufacturer

Safety-Kleen Systems, Inc.

42 Longwater Drive

Norwell, MA 02061-9149

U.S.A.

1-800-669-5740

[www.safety-kleen.com](http://www.safety-kleen.com)

#### Supplier (in Canada)

Safety-Kleen Canada, Inc.

25 Regan Road

Brampton, Ontario, L1A 1B2

Canada

1-800-669-5740

[www.safety-kleen.com](http://www.safety-kleen.com)

### 1.4. Emergency Telephone Number

**Emergency Number** : 1-800-468-1760

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### GHS-US/CA Classification

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Acute Tox. 4 (Inhalation:vapor)	H332
Skin Irrit. 2	H315
Eye Dam. 1	H318
Muta. 1B	H340
Carc. 1A	H350
Repr. 1A	H360
STOT SE 1	H370
STOT SE 3	H336
STOT SE 3	H335
STOT RE 2	H373
Asp. Tox. 1	H304

Full text of hazard classes and H-statements : see section 16

### 2.2. Label Elements

#### GHS-US/CA Labeling

##### Hazard Pictograms (GHS-US/CA)



##### Signal Word (GHS-US/CA)

: Danger

##### Hazard Statements (GHS-US/CA)

: H225 - Highly flammable liquid and vapor.  
 H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.  
 H304 - May be fatal if swallowed and enters airways.  
 H315 - Causes skin irritation.

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H318 - Causes serious eye damage.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H340 - May cause genetic defects.  
H350 - May cause cancer.  
H360 - May damage fertility or the unborn child.  
H370 - Causes damage to organs (central nervous system, optic nerve).  
H373 - May cause damage to organs (central nervous system, peripheral nervous system, hearing organs, liver, kidneys) through prolonged or repeated exposure.

**Precautionary Statements (GHS-US/CA) :** P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
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, and lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take action to prevent static discharges.  
P260 - Do not breathe vapors, mist, or spray.  
P263 - Avoid contact during pregnancy/while nursing.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.  
P310 - Immediately call a POISON CENTER or doctor.  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see section 4 on this SDS).  
P330 - Rinse mouth.  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.  
P391 - Collect spillage.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Acetone	Dimethyl ketone / 2-Propanone / ACETONE / Propan-2-one / Propanone	(CAS-No.) 67-64-1	≤ 60	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Methyl ethyl ketone	Butan-2-one / 2-Butanone / Ethyl methyl ketone / Methyl acetone / MEK	(CAS-No.) 78-93-3	≤ 55	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335
Toluene	Benzene, methyl- / Methylbenzene / Phenylmethane / TOLUENE	(CAS-No.) 108-88-3	≤ 50	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapor), H332 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 4, H413
n-Butyl acetate	1-Butyl acetate / Butyl acetate, n- / Butyl acetate / BUTYL ACETATE / Acetic acid, n-butyl ester	(CAS-No.) 123-86-4	≤ 40	Flam. Liq. 2, H225 STOT SE 3, H336
Isobutyl acetate	Acetic acid, 2-methylpropyl ester / Acetic acid, isobutyl ester / 2-Methylpropyl acetate / ISOBUTYL ACETATE	(CAS-No.) 110-19-0	≤ 40	Flam. Liq. 2, H225 STOT SE 3, H336 Aquatic Acute 3, H402
Isopropyl acetate	Acetic acid, 1-methylethyl ester / Acetic acid, isopropyl ester / 2-Propyl acetate / 1-Methylethyl acetate / ISOPROPYL ACETATE	(CAS-No.) 108-21-4	≤ 40	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Propylene glycol monomethyl ether acetate	Acetate, 1-methoxy-2-propyl / Acetic acid, 2-methoxy-1-methylethyl ester / 2-Methoxy-1-methylethyl acetate / 1-Methoxy-2-acetoxypropane / 1-Methoxy-2-propanol	(CAS-No.) 108-65-6	≤ 40	Flam. Liq. 3, H226 STOT SE 3, H336
n-Propyl acetate	Acetic acid, propyl ester / 1-Propyl acetate / Propyl acetate / Propyl acetate, n- / PROPYL ACETATE	(CAS-No.) 109-60-4	≤ 40	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Acute 3, H402
Ethyl acetate	Acetic acid, ethyl ester / Ethyl ethanoate / ETHYL ACETATE	(CAS-No.) 141-78-6	≤ 40	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
2-Pentanone, 4-methyl-	Hexone / Isobutyl methyl ketone / Isopropylacetone / Methyl isobutyl ketone / 4-Methyl-2-pentanone	(CAS-No.) 108-10-1	≤ 30	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335
Xylenes (o-, m-, p-isomers)	Benzene, dimethyl- / Dimethylbenzene (mixed isomers) / Xylene / Xylene (all isomers) / Xylene (mixed isomers)	(CAS-No.) 1330-20-7	≤ 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Repr. 2, H361 Asp. Tox. 1, H304 Aquatic Acute 1, H400

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Distillates, petroleum, solvent-refined light paraffinic	Petroleum distillates, solvent-refined light paraffinic / Distillates (petroleum), solvent-refined light paraffinic / Petroleum distillate solvent refined light paraffinic / Distillates, petroleum, solvent-refined light paraffinic (A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C15-30 and produces a finished oil with a viscosity of less than 100 SUS at 100°F (19cSt at 40°C.) / Distillates (petroleum), solvent-refined light paraffinic; base oil - unspecified	(CAS-No.) 64741-89-5	≤ 20	Carc. 1B, H350 Asp. Tox. 1, H304
Naphtha, petroleum, full-range straight-run	Naphtha (petroleum), full-range straight-run / Naphtha (petroleum), full range straight-run - low boiling point naphtha / Naphtha, full range / Naphtha (petroleum), full-range straight-run; Low boiling point naphtha [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately - 20°C to 220°C (- 4°F to 428°F).] / Naphtha, petroleum, full range straight run	(CAS-No.) 64741-42-0	≤ 20	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Petroleum distillates, hydrotreated light	Distillates (petroleum), hydrotreated light / Distillates, petroleum, hydrotreated light / Hydrotreated light distillate / Kerosene, hydrotreated / Petroleum distillates, hydrotreated light (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9-16 and boiling in the range of approximately 150-290°C.)	(CAS-No.) 64742-47-8	≤ 20	Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Isopropyl alcohol	2-Hydroxypropane / 2-Propyl alcohol / 2-Propanol / Isopropanol / Propan-2-ol	(CAS-No.) 67-63-0	≤ 20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl alcohol	Methylcarbinol / Ethanol / ALCOHOL / Alcohol anhydrous / Alcohol / Grain alcohol	(CAS-No.) 64-17-5	≤ 20	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
n-Propanol	n-Propyl alcohol / Propanol / 1-Propyl alcohol / Propyl alcohol / Propylic alcohol	(CAS-No.) 71-23-8	≤ 20	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336
1-Butanol	n-Butyl alcohol / n-Butanol / Butanol, 1- / 1-Butyl alcohol / 1-Hydroxybutane	(CAS-No.) 71-36-3	≤ 20	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
Aromatic hydrocarbons	Hydrocarbons, aromatic / Aromatic solvent / Solvesso 100 / Hydrocarbons liquid aromatic	(CAS-No.) 63231-51-6	≤ 15	Carc. 1A, H350 Repr. 1A, H360 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-	Bis(trimethylsilyl)amine / Disilazane, 1,1,1,3,3,3-hexamethyl- / Hexamethyldisilazane / 1,1,1,3,3,3-	(CAS-No.) 999-97-3	≤ 10	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311

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	Hexamethyldisilazane / Hexamethylsilazane			Acute Tox. 4 (Inhalation), H332 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Methanol	Methyl alcohol / Carbinol / Methyl hydroxide / Wood alcohol / METHYL ALCOHOL	(CAS-No.) 67-56-1	≤ 10	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370 STOT SE 3, H336
Ethylbenzene	Benzene, ethyl- / Phenylethane / ETHYLBENZENE / Ethyl benzene	(CAS-No.) 100-41-4	≤ 5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Ethyl 3-ethoxypropanoate	Ethyl 3-ethoxypropionate / Propanoic acid, 3-ethoxy-, ethyl ester / Propionate, 3-ethoxy-, ethyl / Propionic acid, 3-ethoxy-, ethyl ester / EEP solvent	(CAS-No.) 763-69-9	≤ 1	Flam. Liq. 3, H226 Aquatic Acute 3, H402

Full text of H-statements: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

**Skin Contact:** Immediately remove contaminated clothing. Immediately drench affected area with soap and water for at least 15 minutes. Immediately call a poison center or doctor/physician.

**Eye Contact:** Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Ingestion:** Do NOT induce vomiting. Place affected person on their side. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** May be fatal if swallowed and enters airways. Causes damage to organs (central nervous system, optic nerve). Causes serious eye damage. Causes skin irritation. Harmful in contact with skin. Harmful if swallowed. Harmful if inhaled. May cause cancer. May cause damage to organs (central nervous system, peripheral nervous system, hearing organs, liver, kidneys) through prolonged or repeated exposure. May cause genetic defects. May damage fertility. May damage the unborn child. May cause respiratory irritation. May cause drowsiness and dizziness.

**Inhalation:** Irritation of the respiratory tract and the other mucous membranes. High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms. Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be absorbed through the skin and eyes.

**Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts. Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury. This material contains methanol, which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death.

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**Chronic Symptoms:** May cause cancer. May cause damage to organs (central nervous system, peripheral nervous system, hearing organs, liver, kidneys) through prolonged or repeated exposure. May cause genetic defects. May damage fertility or the unborn child.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed container cool.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Highly flammable liquid and vapor. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

**Explosion Hazard:** May form flammable or explosive vapor-air mixture.

**Reactivity:** Reacts violently with strong oxidizers. Increased risk of fire or explosion.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Unidentified organic compounds. Toxic fumes. Smoke.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not handle until all safety precautions have been read and understood. Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Eliminate ignition sources first, then ventilate the area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** As an immediate precautionary measure, isolate spill or leak area in all directions. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk. Ventilate area.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Use only non-sparking tools. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

**Precautions for Safe Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, vapors. Do not get in eyes, on skin, or on clothing. Use only non-sparking tools. Take precautionary measures against static discharge. Handle empty containers with care because they may still present a hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Use explosion-proof electrical, ventilating, and lighting equipment. Ground and bond container and receiving equipment. Take action to prevent static discharges. Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Store locked up/in a secure area. Keep in fireproof place.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Halogenated compounds. Alkali metals. Amines.

#### 7.3. Specific End Use(s)

For cleaning coating equipment (e.g. spray guns); lacquer thinner. For industrial use only. Not for human or veterinary use. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Toluene (108-88-3)		
USA ACGIH	ACGIH OEL TWA [ppm]	20 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA ACGIH	BEI (BLV)	0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 0.3 mg/g Kreatinin Parameter: o-Cresol with hydrolysis - Medium: urine - Sampling time: end of shift (background)
USA OSHA	OSHA PEL (TWA) [2]	200 ppm
USA OSHA	OSHA PEL C [ppm]	300 ppm
USA OSHA	Acceptable Maximum Peak Above The Acceptable Ceiling Concentration For An 8-Hr Shift	500 ppm Peak (10 minutes)
USA NIOSH	NIOSH REL (TWA)	375 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	100 ppm
USA NIOSH	NIOSH REL (STEL)	560 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL STEL [ppm]	150 ppm
USA IDLH	IDLH [ppm]	500 ppm
Alberta	OEL TWA	188 mg/m <sup>3</sup>
Alberta	OEL TWA [ppm]	50 ppm
British Columbia	OEL TWA [ppm]	20 ppm
Manitoba	OEL TWA [ppm]	20 ppm
New Brunswick	OEL TWA	188 mg/m <sup>3</sup>
New Brunswick	OEL TWA [ppm]	50 ppm
Newfoundland & Labrador	OEL TWA [ppm]	20 ppm
Nova Scotia	OEL TWA [ppm]	20 ppm

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<b>Nunavut</b>	OEL STEL [ppm]	60 ppm
<b>Nunavut</b>	OEL TWA [ppm]	50 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	60 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	50 ppm
<b>Ontario</b>	OEL TWA [ppm]	20 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	20 ppm
<b>Québec</b>	VEMP (OEL TWA)	188 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA) [ppm]	50 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	60 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	50 ppm
<b>Yukon</b>	OEL STEL	560 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	150 ppm
<b>Yukon</b>	OEL TWA	375 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	100 ppm
<b>Acetone (67-64-1)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	250 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	500 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA ACGIH</b>	BEI (BLV)	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift (nonspecific)
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	2400 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	1000 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	590 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	250 ppm
<b>USA IDLH</b>	IDLH [ppm]	2500 ppm (10% LEL)
<b>Alberta</b>	OEL STEL	1800 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL [ppm]	750 ppm
<b>Alberta</b>	OEL TWA	1200 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	500 ppm
<b>British Columbia</b>	OEL STEL [ppm]	500 ppm
<b>British Columbia</b>	OEL TWA [ppm]	250 ppm
<b>Manitoba</b>	OEL STEL [ppm]	500 ppm
<b>Manitoba</b>	OEL TWA [ppm]	250 ppm
<b>New Brunswick</b>	OEL STEL	1782 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	750 ppm
<b>New Brunswick</b>	OEL TWA	1188 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	500 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	500 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	250 ppm
<b>Nova Scotia</b>	OEL STEL [ppm]	500 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	250 ppm
<b>Nunavut</b>	OEL STEL [ppm]	750 ppm
<b>Nunavut</b>	OEL TWA [ppm]	500 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	750 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	500 ppm
<b>Ontario</b>	OEL STEL [ppm]	500 ppm
<b>Ontario</b>	OEL TWA [ppm]	250 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	500 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	250 ppm
<b>Québec</b>	VECD (OEL STEL)	2380 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEL) [ppm]	1000 ppm



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Québec	VEMP (OEL TWA)	1190 mg/m <sup>3</sup>
Québec	VEMP (OEL TWA) [ppm]	500 ppm
Saskatchewan	OEL STEL [ppm]	750 ppm
Saskatchewan	OEL TWA [ppm]	500 ppm
Yukon	OEL STEL	3000 mg/m <sup>3</sup>
Yukon	OEL STEL [ppm]	1250 ppm
Yukon	OEL TWA	2400 mg/m <sup>3</sup>
Yukon	OEL TWA [ppm]	1000 ppm
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>		
USA ACGIH	ACGIH OEL TWA [ppm]	100 ppm
USA ACGIH	ACGIH OEL STEL [ppm]	150 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA ACGIH	BEI (BLV)	1.5 g/g Kreatinin Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift
USA OSHA	OSHA PEL (TWA) [1]	435 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [2]	100 ppm
Alberta	OEL STEL	651 mg/m <sup>3</sup>
Alberta	OEL STEL [ppm]	150 ppm
Alberta	OEL TWA	434 mg/m <sup>3</sup>
Alberta	OEL TWA [ppm]	100 ppm
British Columbia	OEL STEL [ppm]	150 ppm
British Columbia	OEL TWA [ppm]	100 ppm
Manitoba	OEL STEL [ppm]	150 ppm
Manitoba	OEL TWA [ppm]	100 ppm
New Brunswick	OEL STEL	651 mg/m <sup>3</sup>
New Brunswick	OEL STEL [ppm]	150 ppm
New Brunswick	OEL TWA	434 mg/m <sup>3</sup>
New Brunswick	OEL TWA [ppm]	100 ppm
Newfoundland & Labrador	OEL STEL [ppm]	150 ppm
Newfoundland & Labrador	OEL TWA [ppm]	100 ppm
Nova Scotia	OEL STEL [ppm]	150 ppm
Nova Scotia	OEL TWA [ppm]	100 ppm
Nunavut	OEL STEL [ppm]	150 ppm
Nunavut	OEL TWA [ppm]	100 ppm
Northwest Territories	OEL STEL [ppm]	150 ppm
Northwest Territories	OEL TWA [ppm]	100 ppm
Ontario	OEL STEL [ppm]	150 ppm
Ontario	OEL TWA [ppm]	100 ppm
Prince Edward Island	OEL STEL [ppm]	150 ppm
Prince Edward Island	OEL TWA [ppm]	100 ppm
Québec	VECD (OEL STEL)	651 mg/m <sup>3</sup>
Québec	VECD (OEL STEL) [ppm]	150 ppm
Québec	VEMP (OEL TWA)	434 mg/m <sup>3</sup>
Québec	VEMP (OEL TWA) [ppm]	100 ppm
Saskatchewan	OEL STEL [ppm]	150 ppm
Saskatchewan	OEL TWA [ppm]	100 ppm
Yukon	OEL STEL	650 mg/m <sup>3</sup>
Yukon	OEL STEL [ppm]	150 ppm
Yukon	OEL TWA	435 mg/m <sup>3</sup>
Yukon	OEL TWA [ppm]	100 ppm
<b>Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)- (999-97-3)</b>		

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USA AIHA	WEEL TWA [ppm]	10 ppm
USA AIHA	WEEL STEL [ppm]	50 ppm (15-min. STEL)
<b>Ethylbenzene (100-41-4)</b>		
USA ACGIH	ACGIH OEL TWA [ppm]	20 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA ACGIH	BEI (BLV)	0.15 g/g Kreatinin Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: end of shift (nonspecific)
USA OSHA	OSHA PEL (TWA) [1]	435 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [2]	100 ppm
USA NIOSH	NIOSH REL (TWA)	435 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	100 ppm
USA NIOSH	NIOSH REL (STEL)	545 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL STEL [ppm]	125 ppm
USA IDLH	IDLH [ppm]	800 ppm (10% LEL)
Alberta	OEL STEL	543 mg/m <sup>3</sup>
Alberta	OEL STEL [ppm]	125 ppm
Alberta	OEL TWA	434 mg/m <sup>3</sup>
Alberta	OEL TWA [ppm]	100 ppm
British Columbia	OEL TWA [ppm]	20 ppm
Manitoba	OEL TWA [ppm]	20 ppm
New Brunswick	OEL STEL	543 mg/m <sup>3</sup>
New Brunswick	OEL STEL [ppm]	125 ppm
New Brunswick	OEL TWA	434 mg/m <sup>3</sup>
New Brunswick	OEL TWA [ppm]	100 ppm
Newfoundland & Labrador	OEL TWA [ppm]	20 ppm
Nova Scotia	OEL TWA [ppm]	20 ppm
Nunavut	OEL STEL [ppm]	125 ppm
Nunavut	OEL TWA [ppm]	100 ppm
Northwest Territories	OEL STEL [ppm]	125 ppm
Northwest Territories	OEL TWA [ppm]	100 ppm
Ontario	OEL TWA [ppm]	20 ppm
Prince Edward Island	OEL TWA [ppm]	20 ppm
Québec	VEMP (OEL TWA) [ppm]	20 ppm
Saskatchewan	OEL STEL [ppm]	125 ppm
Saskatchewan	OEL TWA [ppm]	100 ppm
Yukon	OEL STEL	545 mg/m <sup>3</sup>
Yukon	OEL STEL [ppm]	125 ppm
Yukon	OEL TWA	435 mg/m <sup>3</sup>
Yukon	OEL TWA [ppm]	100 ppm
<b>Ethyl 3-ethoxypropanoate (763-69-9)</b>		
Ontario	OEL TWA	300 mg/m <sup>3</sup>
Ontario	OEL TWA [ppm]	50 ppm
<b>n-Butyl acetate (123-86-4)</b>		
USA ACGIH	ACGIH OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
USA ACGIH	ACGIH OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
USA OSHA	OSHA PEL (TWA) [1]	710 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [2]	150 ppm
USA NIOSH	NIOSH REL (TWA)	710 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	150 ppm

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<b>USA NIOSH</b>	NIOSH REL (STEL)	950 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL STEL [ppm]	200 ppm
<b>USA IDLH</b>	IDLH [ppm]	1700 ppm (10% LEL)
<b>Alberta</b>	OEL STEL	950 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL [ppm]	200 ppm
<b>Alberta</b>	OEL TWA	713 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	150 ppm
<b>British Columbia</b>	OEL STEL [ppm]	150 ppm (Butyl acetate, all isomers)
<b>British Columbia</b>	OEL TWA [ppm]	50 ppm (Butyl acetate, all isomers)
<b>Manitoba</b>	OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>Manitoba</b>	OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>New Brunswick</b>	OEL STEL	950 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	200 ppm
<b>New Brunswick</b>	OEL TWA	713 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	150 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>Nova Scotia</b>	OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>Nova Scotia</b>	OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>Nunavut</b>	OEL STEL [ppm]	200 ppm
<b>Nunavut</b>	OEL TWA [ppm]	150 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	200 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	150 ppm
<b>Ontario</b>	OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>Ontario</b>	OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>Prince Edward Island</b>	OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>Prince Edward Island</b>	OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>Québec</b>	VECD (OEL STEL) [ppm]	150 ppm (Butyl acetate (all isomers))
<b>Québec</b>	VEMP (OEL TWA) [ppm]	50 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	200 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	150 ppm
<b>Yukon</b>	OEL STEL	950 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	200 ppm
<b>Yukon</b>	OEL TWA	710 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	150 ppm

### Isobutyl acetate (110-19-0)

<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	700 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	150 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	700 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	150 ppm
<b>USA IDLH</b>	IDLH [ppm]	1300 ppm (10% LEL)
<b>Alberta</b>	OEL TWA	713 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	150 ppm
<b>British Columbia</b>	OEL STEL [ppm]	150 ppm (Butyl acetate, all isomers)
<b>British Columbia</b>	OEL TWA [ppm]	50 ppm (Butyl acetate, all isomers)
<b>Manitoba</b>	OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>Manitoba</b>	OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>New Brunswick</b>	OEL TWA	713 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	150 ppm

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<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>Nova Scotia</b>	OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>Nova Scotia</b>	OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>Nunavut</b>	OEL STEL [ppm]	188 ppm
<b>Nunavut</b>	OEL TWA [ppm]	150 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	188 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	150 ppm
<b>Ontario</b>	OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>Ontario</b>	OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>Prince Edward Island</b>	OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
<b>Prince Edward Island</b>	OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
<b>Québec</b>	VECD (OEL STEL) [ppm]	150 ppm (Butyl acetate (all isomers))
<b>Québec</b>	VEMP (OEL TWA) [ppm]	50 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	188 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	150 ppm
<b>Yukon</b>	OEL STEL	875 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	187 ppm
<b>Yukon</b>	OEL TWA	700 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	150 ppm
<b>Isopropyl acetate (108-21-4)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	950 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	250 ppm
<b>USA IDLH</b>	IDLH [ppm]	1800 ppm
<b>Alberta</b>	OEL STEL	832 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL [ppm]	200 ppm
<b>Alberta</b>	OEL TWA	416 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	100 ppm
<b>British Columbia</b>	OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
<b>British Columbia</b>	OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
<b>Manitoba</b>	OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
<b>Manitoba</b>	OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
<b>New Brunswick</b>	OEL STEL	1290 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	310 ppm
<b>New Brunswick</b>	OEL TWA	1040 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	250 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
<b>Nova Scotia</b>	OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
<b>Nova Scotia</b>	OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
<b>Nunavut</b>	OEL STEL [ppm]	200 ppm
<b>Nunavut</b>	OEL TWA [ppm]	100 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	200 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	100 ppm
<b>Ontario</b>	OEL STEL [ppm]	200 ppm
<b>Ontario</b>	OEL TWA [ppm]	100 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
<b>Prince Edward Island</b>	OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
<b>Québec</b>	VECD (OEL STEL) [ppm]	200 ppm

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Québec	VEMP (OEL TWA) [ppm]	100 ppm
Saskatchewan	OEL STEL [ppm]	200 ppm
Saskatchewan	OEL TWA [ppm]	100 ppm
Yukon	OEL STEL	1185 mg/m <sup>3</sup>
Yukon	OEL STEL [ppm]	310 ppm
Yukon	OEL TWA	950 mg/m <sup>3</sup>
Yukon	OEL TWA [ppm]	250 ppm
<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>		
USA AIHA	WEEL TWA [ppm]	50 ppm
British Columbia	OEL STEL [ppm]	75 ppm
British Columbia	OEL TWA [ppm]	50 ppm
Ontario	OEL TWA	270 mg/m <sup>3</sup>
Ontario	OEL TWA [ppm]	50 ppm
<b>n-Propyl acetate (109-60-4)</b>		
USA ACGIH	ACGIH OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
USA ACGIH	ACGIH OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
USA OSHA	OSHA PEL (TWA) [1]	840 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [2]	200 ppm
USA NIOSH	NIOSH REL (TWA)	840 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	200 ppm
USA NIOSH	NIOSH REL (STEL)	1050 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL STEL [ppm]	250 ppm
USA IDLH	IDLH [ppm]	1700 ppm
Alberta	OEL STEL	1040 mg/m <sup>3</sup>
Alberta	OEL STEL [ppm]	250 ppm
Alberta	OEL TWA	835 mg/m <sup>3</sup>
Alberta	OEL TWA [ppm]	200 ppm
British Columbia	OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
British Columbia	OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
Manitoba	OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
Manitoba	OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
New Brunswick	OEL STEL	1040 mg/m <sup>3</sup>
New Brunswick	OEL STEL [ppm]	250 ppm
New Brunswick	OEL TWA	835 mg/m <sup>3</sup>
New Brunswick	OEL TWA [ppm]	200 ppm
Newfoundland & Labrador	OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
Newfoundland & Labrador	OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
Nova Scotia	OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
Nova Scotia	OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
Nunavut	OEL STEL [ppm]	250 ppm
Nunavut	OEL TWA [ppm]	200 ppm
Northwest Territories	OEL STEL [ppm]	250 ppm
Northwest Territories	OEL TWA [ppm]	200 ppm
Ontario	OEL STEL [ppm]	250 ppm
Ontario	OEL TWA [ppm]	200 ppm
Prince Edward Island	OEL STEL [ppm]	150 ppm (Propyl acetate isomers)
Prince Edward Island	OEL TWA [ppm]	100 ppm (Propyl acetate isomers)
Québec	VECD (OEL STEL)	1040 mg/m <sup>3</sup>
Québec	VECD (OEL STEL) [ppm]	250 ppm
Québec	VEMP (OEL TWA)	835 mg/m <sup>3</sup>
Québec	VEMP (OEL TWA) [ppm]	200 ppm

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<b>Saskatchewan</b>	OEL STEL [ppm]	250 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	200 ppm
<b>Yukon</b>	OEL STEL	1050 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	250 ppm
<b>Yukon</b>	OEL TWA	840 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	200 ppm
<b>Ethyl acetate (141-78-6)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	400 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	1400 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	400 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	1400 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	400 ppm
<b>USA IDLH</b>	IDLH [ppm]	2000 ppm (10% LEL)
<b>Alberta</b>	OEL TWA	1440 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	400 ppm
<b>British Columbia</b>	OEL TWA [ppm]	150 ppm
<b>Manitoba</b>	OEL TWA [ppm]	400 ppm
<b>New Brunswick</b>	OEL TWA	1440 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	400 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	400 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	400 ppm
<b>Nunavut</b>	OEL STEL [ppm]	500 ppm
<b>Nunavut</b>	OEL TWA [ppm]	400 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	500 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	400 ppm
<b>Ontario</b>	OEL TWA [ppm]	400 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	400 ppm
<b>Québec</b>	VEMP (OEL TWA)	1440 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA) [ppm]	400 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	500 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	400 ppm
<b>Yukon</b>	OEL STEL	1400 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	400 ppm
<b>Yukon</b>	OEL TWA	1400 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	400 ppm
<b>Isopropyl alcohol (67-63-0)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	200 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	400 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Not Classifiable as a Human Carcinogen
<b>USA ACGIH</b>	BEI (BLV)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift at end of workweek (background, nonspecific)
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	980 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	400 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	980 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	400 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	1225 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL STEL [ppm]	500 ppm
<b>USA IDLH</b>	IDLH [ppm]	2000 ppm (10% LEL)
<b>Alberta</b>	OEL STEL	984 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL [ppm]	400 ppm

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<b>Alberta</b>	OEL TWA	492 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	200 ppm
<b>British Columbia</b>	OEL STEL [ppm]	400 ppm
<b>British Columbia</b>	OEL TWA [ppm]	200 ppm
<b>Manitoba</b>	OEL STEL [ppm]	400 ppm
<b>Manitoba</b>	OEL TWA [ppm]	200 ppm
<b>New Brunswick</b>	OEL STEL	1230 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	500 ppm
<b>New Brunswick</b>	OEL TWA	983 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	400 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	400 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	200 ppm
<b>Nova Scotia</b>	OEL STEL [ppm]	400 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	200 ppm
<b>Nunavut</b>	OEL STEL [ppm]	400 ppm
<b>Nunavut</b>	OEL TWA [ppm]	200 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	400 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	200 ppm
<b>Ontario</b>	OEL STEL [ppm]	400 ppm
<b>Ontario</b>	OEL TWA [ppm]	200 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	400 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	200 ppm
<b>Québec</b>	VECD (OEL STEL)	1230 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEL) [ppm]	500 ppm
<b>Québec</b>	VEMP (OEL TWA)	985 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA) [ppm]	400 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	400 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	200 ppm
<b>Yukon</b>	OEL STEL	1225 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	500 ppm
<b>Yukon</b>	OEL TWA	980 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	400 ppm
<b>Ethyl alcohol (64-17-5)</b>		
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	1000 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	1900 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	1000 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	1900 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	1000 ppm
<b>USA IDLH</b>	IDLH [ppm]	3300 ppm (10% LEL)
<b>Alberta</b>	OEL TWA	1880 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	1000 ppm
<b>British Columbia</b>	OEL STEL [ppm]	1000 ppm
<b>Manitoba</b>	OEL STEL [ppm]	1000 ppm
<b>New Brunswick</b>	OEL TWA	1880 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	1000 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	1000 ppm
<b>Nova Scotia</b>	OEL STEL [ppm]	1000 ppm
<b>Nunavut</b>	OEL STEL [ppm]	1250 ppm
<b>Nunavut</b>	OEL TWA [ppm]	1000 ppm

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<b>Northwest Territories</b>	OEL STEL [ppm]	1250 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	1000 ppm
<b>Ontario</b>	OEL STEL [ppm]	1000 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	1000 ppm
<b>Québec</b>	VECD (OEL STEL) [ppm]	1000 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	1250 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	1000 ppm
<b>Yukon</b>	OEL STEL	1900 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	1000 ppm
<b>Yukon</b>	OEL TWA	1900 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	1000 ppm
<b>Methanol (67-56-1)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	200 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	250 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
<b>USA ACGIH</b>	BEI (BLV)	15 mg/l Parameter: Methanol - Medium: urine - Sampling time: end of shift (background, nonspecific)
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	260 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	200 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	260 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	200 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	325 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL STEL [ppm]	250 ppm
<b>USA IDLH</b>	IDLH [ppm]	6000 ppm
<b>Alberta</b>	OEL STEL	328 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL [ppm]	250 ppm
<b>Alberta</b>	OEL TWA	262 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	200 ppm
<b>British Columbia</b>	OEL STEL [ppm]	250 ppm
<b>British Columbia</b>	OEL TWA [ppm]	200 ppm
<b>Manitoba</b>	OEL STEL [ppm]	250 ppm
<b>Manitoba</b>	OEL TWA [ppm]	200 ppm
<b>New Brunswick</b>	OEL STEL	328 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	250 ppm
<b>New Brunswick</b>	OEL TWA	262 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	200 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	250 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	200 ppm
<b>Nova Scotia</b>	OEL STEL [ppm]	250 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	200 ppm
<b>Nunavut</b>	OEL STEL [ppm]	250 ppm
<b>Nunavut</b>	OEL TWA [ppm]	200 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	250 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	200 ppm
<b>Ontario</b>	OEL STEL [ppm]	250 ppm
<b>Ontario</b>	OEL TWA [ppm]	200 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	250 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	200 ppm
<b>Québec</b>	VECD (OEL STEL)	328 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEL) [ppm]	250 ppm



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Québec	VEMP (OEL TWA)	262 mg/m <sup>3</sup>
Québec	VEMP (OEL TWA) [ppm]	200 ppm
Saskatchewan	OEL STEL [ppm]	250 ppm
Saskatchewan	OEL TWA [ppm]	200 ppm
Yukon	OEL STEL	310 mg/m <sup>3</sup>
Yukon	OEL STEL [ppm]	250 ppm
Yukon	OEL TWA	260 mg/m <sup>3</sup>
Yukon	OEL TWA [ppm]	200 ppm
<b>n-Propanol (71-23-8)</b>		
USA ACGIH	ACGIH OEL TWA [ppm]	100 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) [1]	500 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [2]	200 ppm
USA NIOSH	NIOSH REL (TWA)	500 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL TWA [ppm]	200 ppm
USA NIOSH	NIOSH REL (STEL)	625 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL STEL [ppm]	250 ppm
USA IDLH	IDLH [ppm]	800 ppm
Alberta	OEL STEL	984 mg/m <sup>3</sup>
Alberta	OEL STEL [ppm]	400 ppm
Alberta	OEL TWA	492 mg/m <sup>3</sup>
Alberta	OEL TWA [ppm]	200 ppm
British Columbia	OEL TWA [ppm]	100 ppm
Manitoba	OEL TWA [ppm]	100 ppm
New Brunswick	OEL STEL	614 mg/m <sup>3</sup>
New Brunswick	OEL STEL [ppm]	250 ppm
New Brunswick	OEL TWA	492 mg/m <sup>3</sup>
New Brunswick	OEL TWA [ppm]	200 ppm
Newfoundland & Labrador	OEL TWA [ppm]	100 ppm
Nova Scotia	OEL TWA [ppm]	100 ppm
Nunavut	OEL STEL [ppm]	400 ppm
Nunavut	OEL TWA [ppm]	200 ppm
Northwest Territories	OEL STEL [ppm]	400 ppm
Northwest Territories	OEL TWA [ppm]	200 ppm
Ontario	OEL TWA [ppm]	100 ppm
Prince Edward Island	OEL TWA [ppm]	100 ppm
Québec	VEMP (OEL TWA) [ppm]	100 ppm
Saskatchewan	OEL STEL [ppm]	400 ppm
Saskatchewan	OEL TWA [ppm]	200 ppm
Yukon	OEL STEL	625 mg/m <sup>3</sup>
Yukon	OEL STEL [ppm]	250 ppm
Yukon	OEL TWA	500 mg/m <sup>3</sup>
Yukon	OEL TWA [ppm]	200 ppm
<b>1-Butanol (71-36-3)</b>		
USA ACGIH	ACGIH OEL TWA [ppm]	20 ppm
USA OSHA	OSHA PEL (TWA) [1]	300 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) [2]	100 ppm
USA NIOSH	NIOSH REL (Ceiling)	150 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL C [ppm]	50 ppm
USA IDLH	IDLH [ppm]	1400 ppm (10% LEL)
Alberta	OEL TWA	60 mg/m <sup>3</sup>

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<b>Alberta</b>	OEL TWA [ppm]	20 ppm
<b>British Columbia</b>	OEL Ceiling [ppm]	30 ppm
<b>British Columbia</b>	OEL TWA [ppm]	15 ppm
<b>Manitoba</b>	OEL TWA [ppm]	20 ppm
<b>New Brunswick</b>	OEL C	152 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL Ceiling [ppm]	50 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	20 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	20 ppm
<b>Nunavut</b>	OEL STEL [ppm]	30 ppm
<b>Nunavut</b>	OEL TWA [ppm]	20 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	30 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	20 ppm
<b>Ontario</b>	OEL TWA [ppm]	20 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	20 ppm
<b>Québec</b>	Plafond (OEL Ceiling)	152 mg/m <sup>3</sup>
<b>Québec</b>	Plafond (OEL Ceiling) [ppm]	50 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	30 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	20 ppm
<b>Yukon</b>	OEL C	150 mg/m <sup>3</sup>
<b>Yukon</b>	OEL Ceiling [ppm]	50 ppm
<b>Methyl ethyl ketone (78-93-3)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	200 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	300 ppm
<b>USA ACGIH</b>	BEI (BLV)	2 mg/l Parameter: MEK - Medium: urine - Sampling time: end of shift (nonspecific)
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	590 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	200 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	590 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	200 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	885 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL STEL [ppm]	300 ppm
<b>USA IDLH</b>	IDLH [ppm]	3000 ppm
<b>Alberta</b>	OEL STEL	885 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL [ppm]	300 ppm
<b>Alberta</b>	OEL TWA	590 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	200 ppm
<b>British Columbia</b>	OEL STEL [ppm]	100 ppm
<b>British Columbia</b>	OEL TWA [ppm]	50 ppm
<b>Manitoba</b>	OEL STEL [ppm]	300 ppm
<b>Manitoba</b>	OEL TWA [ppm]	200 ppm
<b>New Brunswick</b>	OEL STEL	885 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	300 ppm
<b>New Brunswick</b>	OEL TWA	590 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	200 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	300 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	200 ppm
<b>Nova Scotia</b>	OEL STEL [ppm]	300 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	200 ppm
<b>Nunavut</b>	OEL STEL [ppm]	300 ppm
<b>Nunavut</b>	OEL TWA [ppm]	200 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	300 ppm

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<b>Northwest Territories</b>	OEL TWA [ppm]	200 ppm
<b>Ontario</b>	OEL STEL [ppm]	300 ppm
<b>Ontario</b>	OEL TWA [ppm]	200 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	300 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	200 ppm
<b>Québec</b>	VECD (OEL STEL)	300 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEL) [ppm]	100 ppm
<b>Québec</b>	VEMP (OEL TWA)	150 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA) [ppm]	50 ppm
<b>Saskatchewan</b>	OEL STEL [ppm]	300 ppm
<b>Saskatchewan</b>	OEL TWA [ppm]	200 ppm
<b>Yukon</b>	OEL STEL	740 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL [ppm]	250 ppm
<b>Yukon</b>	OEL TWA	590 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA [ppm]	200 ppm
<b>2-Pentanone, 4-methyl- (108-10-1)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	20 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	75 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
<b>USA ACGIH</b>	BEI (BLV)	1 mg/l Parameter: MIBK - Medium: urine - Sampling time: end of shift
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	410 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	100 ppm
<b>USA NIOSH</b>	NIOSH REL (TWA)	205 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	50 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	300 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL STEL [ppm]	75 ppm
<b>USA IDLH</b>	IDLH [ppm]	500 ppm
<b>Alberta</b>	OEL STEL	307 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL [ppm]	75 ppm
<b>Alberta</b>	OEL TWA	205 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	50 ppm
<b>British Columbia</b>	OEL STEL [ppm]	75 ppm
<b>British Columbia</b>	OEL TWA [ppm]	20 ppm
<b>Manitoba</b>	OEL STEL [ppm]	75 ppm
<b>Manitoba</b>	OEL TWA [ppm]	20 ppm
<b>New Brunswick</b>	OEL STEL	307 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	75 ppm
<b>New Brunswick</b>	OEL TWA	205 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	50 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	75 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	20 ppm
<b>Nova Scotia</b>	OEL STEL [ppm]	75 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	20 ppm
<b>Nunavut</b>	OEL STEL [ppm]	75 ppm
<b>Nunavut</b>	OEL TWA [ppm]	50 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	75 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	50 ppm
<b>Ontario</b>	OEL STEL [ppm]	75 ppm
<b>Ontario</b>	OEL TWA [ppm]	20 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	75 ppm

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Prince Edward Island	OEL TWA [ppm]	20 ppm
Québec	VECD (OEL STEL) [ppm]	75 ppm
Québec	VEMP (OEL TWA) [ppm]	20 ppm
Saskatchewan	OEL STEL [ppm]	75 ppm
Saskatchewan	OEL TWA [ppm]	50 ppm
Yukon	OEL STEL	510 mg/m <sup>3</sup>
Yukon	OEL STEL [ppm]	125 ppm
Yukon	OEL TWA	410 mg/m <sup>3</sup>
Yukon	OEL TWA [ppm]	100 ppm

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Gas detectors should be used when flammable gases or vapors may be released. Gas detectors should be used when toxic gases may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. Safety glasses with side-shields. Face shield.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Safety glasses with side-shields. Faceshield as determined by task.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear, colorless to pale yellow liquid
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: 110 °C (230 °F) (Toluene )
Flash Point	: 4 °C (39 °F) (Toluene)
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Specific Gravity	: No data available
Solubility	: Water: Slightly soluble
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

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### VOC content (as regulated)

: 70-85 WT%; 5-6 lb/US gal; 590-720 g/L As per 40 CFR Part 51.100(s)  
Contains photochemically reactive solvent. Consult your state or local air district for location specific information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

Reacts violently with strong oxidizers. Increased risk of fire or explosion.

### 10.2. Chemical Stability:

Highly flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

### 10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

### 10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers. Halogenated compounds. Alkali metals. Amines.

### 10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Unidentified organic compounds. Toxic fumes.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Harmful if swallowed.

**Acute Toxicity (Dermal):** Harmful in contact with skin.

**Acute Toxicity (Inhalation):** Harmful if inhaled.

#### LD50 and LC50 Data:

Ultra Kleen Spray Equipment Solution	
ATE US/CA (oral)	508.57 mg/kg body weight
ATE US/CA (dermal)	1,842.81 mg/kg body weight
ATE US/CA (vapors)	11.14 mg/l/4h

**Skin Corrosion/Irritation:** Causes skin irritation.

**Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** May cause genetic defects.

**Carcinogenicity:** May cause cancer.

**Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs (central nervous system, peripheral nervous system, hearing organs, liver, kidneys) through prolonged or repeated exposure.

**Reproductive Toxicity:** May damage fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** Causes damage to organs (central nervous system, optic nerve). May cause drowsiness or dizziness. May cause respiratory irritation.

**Aspiration Hazard:** May be fatal if swallowed and enters airways.

**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes. High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms. Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis. This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be absorbed through the skin and eyes.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** This material is harmful orally and can cause adverse health effects or death in significant amounts. Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury. This material contains methanol, which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death.

**Chronic Symptoms:** May cause cancer. May cause damage to organs (central nervous system, peripheral nervous system, hearing organs, liver, kidneys) through prolonged or repeated exposure. May cause genetic defects. May damage fertility or the unborn child.

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### 11.2. Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

<b>Toluene (108-88-3)</b>	
LD50 Oral Rat	2600 mg/kg
LD50 Dermal Rabbit	12000 mg/kg
LC50 Inhalation Rat	12.5 mg/l/4h
<b>Acetone (67-64-1)</b>	
LD50 Oral Rat	5800 mg/kg
LD50 Dermal Rabbit	> 15700 mg/kg
LC50 Inhalation Rat	50100 mg/m <sup>3</sup> (Exposure time: 8 h)
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
LD50 Oral Rat	3500 mg/kg
LD50 Dermal Rabbit	> 4350 mg/kg
LC50 Inhalation Rat	29.08 mg/l/4h
<b>Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)</b>	
LD50 Oral Rat	> 15 g/kg
LD50 Dermal Rabbit	> 5 g/kg
<b>Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)- (999-97-3)</b>	
LD50 Oral Rat	813 mg/kg
LD50 Dermal Rabbit	540 mg/kg
LC50 Inhalation Rat	1516 ppm (Exposure time: 6 h)
<b>Ethylbenzene (100-41-4)</b>	
LD50 Oral Rat	3500 mg/kg
LD50 Dermal Rabbit	15400 mg/kg
LC50 Inhalation Rat	17.4 mg/l/4h
<b>Ethyl 3-ethoxypropanoate (763-69-9)</b>	
LD50 Oral Rat	5 g/kg
LD50 Dermal Rabbit	> 9500 mg/kg
LC50 Inhalation Rat	> 5.96 mg/l (Exposure time: 6 h)
<b>Naphtha, petroleum, full-range straight-run (64741-42-0)</b>	
LD50 Oral Rat	> 7000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5610 mg/m <sup>3</sup> (Exposure time: 4 h)
<b>n-Butyl acetate (123-86-4)</b>	
LD50 Oral Rat	10768 mg/kg
LD50 Dermal Rabbit	> 17600 mg/kg
LC50 Inhalation Rat	> 20 mg/l/4h (Results consistent with studies as part of EU REACH Dossier)
<b>Isobutyl acetate (110-19-0)</b>	
LD50 Oral Rat	15400 mg/kg
LD50 Dermal Rabbit	> 17400 mg/kg
<b>Isopropyl acetate (108-21-4)</b>	
LD50 Oral Rat	3000 mg/kg
LD50 Dermal Rabbit	> 17436 mg/kg
LC50 Inhalation Rat	50600 mg/m <sup>3</sup> (Exposure time: 8 h)
<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
LD50 Oral Rat	8532 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
LC50 Inhalation Rat	16000 mg/m <sup>3</sup> (Exposure time: 6 h)
<b>n-Propyl acetate (109-60-4)</b>	

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LD50 Oral Rat	8700 mg/kg
LD50 Dermal Rabbit	> 17756 mg/kg
LC50 Inhalation Rat	32 mg/l/4h
<b>Ethyl acetate (141-78-6)</b>	
LD50 Oral Rat	5620 mg/kg
LD50 Dermal Rabbit	> 18000 mg/kg
LC50 Inhalation Rat	4000 ppm/4h
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 2.11 mg/l/4h
<b>Isopropyl alcohol (67-63-0)</b>	
LD50 Dermal Rabbit	4059 mg/kg
LC50 Inhalation Rat	> 10000 ppm (Exposure time: 6 h)
<b>Ethyl alcohol (64-17-5)</b>	
LD50 Oral Rat	7060 mg/kg
LC50 Inhalation Rat	133.8 mg/l/4h
<b>Methanol (67-56-1)</b>	
LD50 Oral Rat	6200 mg/kg
LD50 Dermal Rabbit	15840 mg/kg
LC50 Inhalation Rat	22500 ppm (Exposure time: 8 h)
ATE US/CA (oral)	100.00 mg/kg body weight
ATE US/CA (dermal)	1,000.00 mg/kg body weight
ATE US/CA (gas)	700.00 ppmV/4h
ATE US/CA (vapors)	3.00 mg/l/4h
ATE US/CA (dust, mist)	0.50 mg/l/4h
<b>n-Propanol (71-23-8)</b>	
LD50 Dermal Rabbit	4049 mg/kg
LC50 Inhalation Rat	> 33.8 mg/l/4h
<b>1-Butanol (71-36-3)</b>	
LD50 Oral Rat	700 mg/kg
LD50 Dermal Rabbit	3402 mg/kg
LC50 Inhalation Rat	> 8000 ppm/4h
<b>Methyl ethyl ketone (78-93-3)</b>	
LD50 Oral Rat	2483 mg/kg
LD50 Dermal Rabbit	5000 mg/kg
LC50 Inhalation Rat	11700 ppm/4h
<b>2-Pentanone, 4-methyl- (108-10-1)</b>	
LD50 Oral Rat	2080 mg/kg
LD50 Dermal Rabbit	3000 mg/kg
LC50 Inhalation Rat	2000 – 4000 ppm/4h
<b>Toluene (108-88-3)</b>	
IARC Group	3
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
IARC Group	3
<b>Ethylbenzene (100-41-4)</b>	
IARC Group	2B
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
<b>Isopropyl alcohol (67-63-0)</b>	

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IARC Group	3
<b>2-Pentanone, 4-methyl- (108-10-1)</b>	
IARC Group	2B
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General:** Toxic to aquatic life with long lasting effects.

<b>Toluene (108-88-3)</b>	
LC50 Fish 1	15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Fish	1.4 mg/l
<b>Acetone (67-64-1)</b>	
LC50 Fish 1	4.74 – 6.33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	10294 – 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	6210 – 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	12600 – 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Aromatic hydrocarbons (63231-51-6)</b>	
NOEC Chronic Algae	0.076 mg/l
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
LC50 Fish 1	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	3.82 mg/l (Exposure time: 48 h - Species: water flea)
LC50 Fish 2	2.661 – 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [2]	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)
<b>Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)</b>	
LC50 Fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)- (999-97-3)</b>	
LC50 Fish 1	167 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	186 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Ethylbenzene (100-41-4)</b>	
LC50 Fish 1	11 – 18 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
<b>Ethyl 3-ethoxypropanoate (763-69-9)</b>	
LC50 Fish 1	62 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	970 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Naphtha, petroleum, full-range straight-run (64741-42-0)</b>	
EC50 - Crustacea [1]	2 mg/l (Exposure time: 48 h - Species: Mysidopsis bahia)
<b>n-Butyl acetate (123-86-4)</b>	
LC50 Fish 1	100 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 Fish 2	17 – 19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
NOEC Chronic Crustacea	23 mg/l
NOEC Chronic Algae	296 mg/l
<b>Isobutyl acetate (110-19-0)</b>	
LC50 Fish 1	17 mg/l (Exposure time: 96 h - Species: Oryzias latipes)
<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
LC50 Fish 1	161 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])



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EC50 - Crustacea [1]	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>n-Propyl acetate (109-60-4)</b>	
LC50 Fish 1	56 – 64 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 Fish 2	56 – 64 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>Ethyl acetate (141-78-6)</b>	
LC50 Fish 1	220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
LC50 Fish 1	> 500 mg/l
LC50 Fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Isopropyl alcohol (67-63-0)</b>	
LC50 Fish 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>Ethyl alcohol (64-17-5)</b>	
LC50 Fish 1	12 – 16 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Methanol (67-56-1)</b>	
LC50 Fish 1	28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>n-Propanol (71-23-8)</b>	
LC50 Fish 1	4480 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	3642 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	3339 – 3977 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>1-Butanol (71-36-3)</b>	
LC50 Fish 1	1730 – 1910 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	1983 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1740 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [2]	1897 – 2072 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Crustacea	4.1 mg/l
<b>Methyl ethyl ketone (78-93-3)</b>	
LC50 Fish 1	3130 – 3320 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	> 520 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	5091 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>2-Pentanone, 4-methyl- (108-10-1)</b>	
LC50 Fish 1	496 – 514 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	170 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2. Persistence and Degradability

Ultra Kleen Spray Equipment Solution	
Persistence and Degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative Potential

Ultra Kleen Spray Equipment Solution	
Bioaccumulative Potential	Not established.

<b>Toluene (108-88-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.7
<b>Acetone (67-64-1)</b>	

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<b>BCF Fish 1</b>	0.69
<b>Partition coefficient n-octanol/water (Log Pow)</b>	-0.24
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
<b>BCF Fish 1</b>	0.6 – 15
<b>Partition coefficient n-octanol/water (Log Pow)</b>	2.77 – 3.15
<b>Ethylbenzene (100-41-4)</b>	
<b>BCF Fish 1</b>	15
<b>Partition coefficient n-octanol/water (Log Pow)</b>	3.2
<b>Ethyl 3-ethoxypropanoate (763-69-9)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	1.35
<b>n-Butyl acetate (123-86-4)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	1.81 (at 23 °C)
<b>Isobutyl acetate (110-19-0)</b>	
<b>BCF Fish 1</b>	(no significant bioconcentration)
<b>Partition coefficient n-octanol/water (Log Pow)</b>	1.72
<b>Isopropyl acetate (108-21-4)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	1.03
<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	0.43
<b>Ethyl acetate (141-78-6)</b>	
<b>BCF Fish 1</b>	30
<b>Partition coefficient n-octanol/water (Log Pow)</b>	0.6
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
<b>BCF Fish 1</b>	61 – 159
<b>Isopropyl alcohol (67-63-0)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	0.05 (at 25 °C)
<b>Ethyl alcohol (64-17-5)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	-0.32
<b>Methanol (67-56-1)</b>	
<b>BCF Fish 1</b>	< 10
<b>Partition coefficient n-octanol/water (Log Pow)</b>	-0.77
<b>n-Propanol (71-23-8)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	0.25 – 0.34
<b>1-Butanol (71-36-3)</b>	
<b>BCF Fish 1</b>	0.64
<b>Partition coefficient n-octanol/water (Log Pow)</b>	0.785 (at 25 °C)

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<b>Methyl ethyl ketone (78-93-3)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	0.3
<b>2-Pentanone, 4-methyl- (108-10-1)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	1.19

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Treatment Methods:** Consult supplier for specific recommendations.

**Sewage Disposal Recommendations:** Do not dispose of waste into sewer.

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

**Ecology - Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

**Proper Shipping Name** : PAINT RELATED MATERIAL  
**Hazard Class** : 3  
**Identification Number** : UN1263  
**Label Codes** : 3  
**Packing Group** : II  
**Marine Pollutant** : Marine pollutant  
**ERG Number** : 128



### 14.2. In Accordance with IMDG

**Proper Shipping Name** : PAINT RELATED MATERIAL  
**Hazard Class** : 3  
**Identification Number** : UN1263  
**Label Codes** : 3  
**Packing Group** : II  
**EmS-No. (Fire)** : F-E  
**EmS-No. (Spillage)** : S-E  
**Marine pollutant** : Marine pollutant



### 14.3. In Accordance with IATA

**Proper Shipping Name** : PAINT RELATED MATERIAL  
**Hazard Class** : 3  
**Identification Number** : UN1263  
**Label Codes** : 3  
**Packing Group** : II  
**ERG Code (IATA)** : 3L



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## 14.4. In Accordance with TDG

**Proper Shipping Name** : FLAMMABLE LIQUID, TOXIC, N.O.S. (Acetone; Methanol)  
**Hazard Class** : 3  
**Identification Number** : UN1992  
**Label Codes** : 3, 6.1  
**Packing Group** : II  
**Marine Pollutant (TDG)** : Marine pollutant



## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>Ultra Kleen Spray Equipment Solution</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Carcinogenicity Health hazard - Skin corrosion or Irritation Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Germ cell mutagenicity Health hazard - Reproductive toxicity Health hazard - Acute toxicity (any route of exposure) Health hazard - Serious eye damage or eye irritation Health hazard - Aspiration hazard
<b>Toluene (108-88-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	1000 lb
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Acetone (67-64-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>CERCLA RQ</b>	5000 lb
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)- (999-97-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Ethylbenzene (100-41-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	1000 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
<b>Ethyl 3-ethoxypropanoate (763-69-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Naphtha, petroleum, full-range straight-run (64741-42-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>n-Butyl acetate (123-86-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>CERCLA RQ</b>	5000 lb listed under Butyl acetate
<b>Isobutyl acetate (110-19-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	

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<b>CERCLA RQ</b>	5000 lb listed under Butyl acetate	
<b>Isopropyl acetate (108-21-4)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
<b>EPA TSCA Regulatory Flag</b>	PMN - PMN - indicates a commenced PMN substance.	
<b>n-Propyl acetate (109-60-4)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
<b>Ethyl acetate (141-78-6)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
<b>CERCLA RQ</b>	5000 lb	
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
<b>Isopropyl alcohol (67-63-0)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
Subject to reporting requirements of United States SARA Section 313		
<b>SARA Section 313 - Emission Reporting</b>	1 % (only if manufactured by the strong acid process, no supplier notification)	
<b>Ethyl alcohol (64-17-5)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
<b>Methanol (67-56-1)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
Subject to reporting requirements of United States SARA Section 313		
<b>CERCLA RQ</b>	5000 lb	
<b>SARA Section 313 - Emission Reporting</b>	1 %	
<b>n-Propanol (71-23-8)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
<b>1-Butanol (71-36-3)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
Subject to reporting requirements of United States SARA Section 313		
<b>CERCLA RQ</b>	5000 lb	
<b>SARA Section 313 - Emission Reporting</b>	1 %	
<b>Methyl ethyl ketone (78-93-3)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
<b>CERCLA RQ</b>	5000 lb	
<b>2-Pentanone, 4-methyl- (108-10-1)</b>		
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active		
Subject to reporting requirements of United States SARA Section 313		
<b>CERCLA RQ</b>	5000 lb	
<b>SARA Section 313 - Emission Reporting</b>	0.1 %	
<b>Chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.</b>		
<b>CAS-No.</b>	<b>Name</b>	<b>Percent by Weight</b>
108-88-3	Toluene	≤ 65
1330-20-7	Xylenes (o-, m-, p- isomers)	≤ 25
100-41-4	Ethylbenzene	≤ 5
67-63-0	Isopropyl alcohol	≤ 20
67-56-1	Methanol	≤ 20
71-36-3	1-Butanol	≤ 20
108-10-1	2-Pentanone, 4-methyl-	≤ 55

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### 15.2. US State Regulations

#### California Proposition 65



**WARNING:** This product can expose you to 2-Pentanone, 4-methyl-, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to Toluene and Methanol, which are known to the State of California to cause birth defects or other reproductive harm. This product can expose you to Ethylbenzene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Toluene (108-88-3)		X		
Ethylbenzene (100-41-4)	X			
Methanol (67-56-1)		X		
2-Pentanone, 4-methyl- (108-10-1)	X	X		

#### Toluene (108-88-3)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### Acetone (67-64-1)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### Xylenes (o-, m-, p- isomers) (1330-20-7)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)

U.S. - Massachusetts - Right To Know List

#### Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)- (999-97-3)

U.S. - New Jersey - Right to Know Hazardous Substance List

#### Ethylbenzene (100-41-4)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### n-Butyl acetate (123-86-4)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### Isobutyl acetate (110-19-0)

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

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### **Isopropyl acetate (108-21-4)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List

### **n-Propyl acetate (109-60-4)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List

### **Ethyl acetate (141-78-6)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### **Isopropyl alcohol (67-63-0)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### **Ethyl alcohol (64-17-5)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List

### **Methanol (67-56-1)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### **n-Propanol (71-23-8)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List

### **1-Butanol (71-36-3)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### **Methyl ethyl ketone (78-93-3)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### **2-Pentanone, 4-methyl- (108-10-1)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

## **15.3. Canadian Regulations**

### **Toluene (108-88-3)**

Listed on the Canadian DSL (Domestic Substances List)

### **Acetone (67-64-1)**

Listed on the Canadian DSL (Domestic Substances List)

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<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Distillates, petroleum, solvent-refined light paraffinic (64741-89-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)- (999-97-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Ethylbenzene (100-41-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Ethyl 3-ethoxypropanoate (763-69-9)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Naphtha, petroleum, full-range straight-run (64741-42-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>n-Butyl acetate (123-86-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Isobutyl acetate (110-19-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Isopropyl acetate (108-21-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>n-Propyl acetate (109-60-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Ethyl acetate (141-78-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Isopropyl alcohol (67-63-0)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Ethyl alcohol (64-17-5)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Methanol (67-56-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>n-Propanol (71-23-8)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>1-Butanol (71-36-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Methyl ethyl ketone (78-93-3)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>2-Pentanone, 4-methyl- (108-10-1)</b>
Listed on the Canadian DSL (Domestic Substances List)

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest : 08/19/2022

Revision

Indication of Changes : Review of data. Hazards identification. Language modified



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## Safety Data Sheet

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### Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

### GHS Full Text Phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 1A	Reproductive toxicity Category 1A
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer

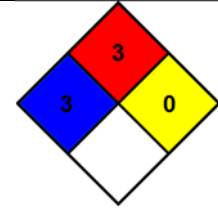
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H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure

- NFPA Health Hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
- NFPA Fire Hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
- NFPA Reactivity Hazard : 0 - Material that in themselves are normally stable, even under fire conditions.



*The information contained herein is correct to the best of our knowledge, information, and belief and is designed only as guidance for the handling, use, processing, storage, transportation, disposal, and release of the product. User assumes all risks incident to use of this product and shall determine the quality and suitability of the product for its use. Supplier offers no warranty, express or implied, whatsoever, including warranties of merchantability or fitness for a particular purpose or otherwise, and specifically disclaims any and all liability for incidental, consequential, or other damages arising out the use or misuse of the product. The information provided relates only to the specific material provided and may not be valid if used in combination with any other materials or process, unless specified herein.*

NA GHS SDS 2015 (Can, US)