

SAFETY DATA SHEET**SECTION 1. IDENTIFICATION****Product identifier used on the label**: **Gun Wash****Product Code(s)** : Not available.**Recommended use of the chemical and restrictions on use**: Solvent used to clean paint guns
Use pattern: Professional Use Only
Restriction on use: None known**Chemical family** : Mixture**Name, address, and telephone number of the supplier:****Canadian Alcohol Co**4120 Midland Ave
Agincourt, ON, Canada
M1S 3B9

Supplier's Telephone # : 416-293-0123

24 Hr. Emergency Tel # : 24 Hr. Emergency Tel. # (613) 996-6666 (CANUTEC)**Name, address, and telephone number of the manufacturer:**

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION**Classification of the chemical**

Clear, water-white liquid. Aromatic solvent odour.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification :

Flammable Liquids - Category 2

Acute toxicity, oral - Category 4

Acute Toxicity, inhalation - Category 4 (vapor)

Serious eye damage/eye irritation - Category 2A

Skin Irritation - Category 2

Reproductive Toxicity - Category 2

Carcinogen - Category 2

Specific Target Organ Toxicity, Single Exposure - Category 1

Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects, Respiratory irritation

Specific target organ toxicity, repeated exposure - Category 2

Aspiration Toxicity - Category 1

Label elements**Hazard pictogram(s)****Signal Word****DANGER!**

SAFETY DATA SHEET*Hazard statement(s)*

Highly flammable liquid and vapor.
Harmful if inhaled or swallowed.
Causes serious eye irritation.
Causes skin irritation.
Suspected of causing cancer.
Suspected of damaging the unborn child.
Causes damage to the optic nerves (eyes) if swallowed.
May cause drowsiness or dizziness.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.

Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, open flames and hot surfaces. - No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical and ventilating equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe mist or vapor.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical advice/attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.
In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

Store locked up.
Store in a well-ventilated place. Keep cool.
Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

May be sensitive to static discharge. Static discharges or other ignition sources at temperatures higher than the flash point could cause a fire. May form explosive peroxides. Rate of peroxide formation is not known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Toluene	Methylbenzene Phenylmethane	108-88-3	10.0 - 30.0
Xylenes	Dimethylbenzene Methyltoluene Xylol	1330-20-7	1.0 - 5.0

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Methyl isobutyl ketone	4-methylpentan-2-one Isobutyl methyl ketone MIBK	108-10-1	1.0 - 5.0
Methyl ethyl ketone	Butanone Methyl acetone	78-93-3	10.0 - 20.0
Methanol	Carbinol Methyl hydrate Methyl alcohol	67-56-1	5.0 - 10.0
n-Butyl alcohol	n-Butanol 1-Hydroxybutane	71-36-3	1.0 - 5.0
Acetone	2-Propanone Methyl ketone	67-64-1	1.0 - 5.0
Ethyl acetate	Ethyl ethanoate Acetoxyethane	141-78-6	1.0 - 5.0
2-Propanol	Isopropyl alcohol 2-Propanol	67-63-0	1.0 - 5.0
n-Butyl-acetate	1-Acetoxybutane Butyl ethanoate	123-86-4	1.0 - 5.0
Solvent naphtha (petroleum), light aromatic	Aromatic naphtha	64742-95-6	1.0 - 5.0
2-butoxyethanol	Ethylene glycol monobutyl ether butyl cellosolve Glycol Ether EB EGBE	111-76-2	1.0 - 5.0
Solvent naphtha, petroleum, medium aliph.	White spirit stoddard solvent	64742-88-7	1.0 - 5.0

The % concentrations for the above listed chemicals will vary from batch to batch. Concentrations listed represent the actual concentration range for each chemical.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Call a physician or poison control centre immediately. Do not induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.
- Inhalation* : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Get medical attention if symptoms persist.
- Skin contact* : Wash off with soap and plenty of water. If irritation or symptoms develop, seek medical attention. Wash contaminated clothing before re-use.
- Eye contact* : If in contact with eyes, immediately flush eyes with running water for at least 20 minutes. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

- : Harmful if swallowed. May cause blindness if swallowed - cannot be made non-poisonous. Causes damage to the optic nerves (eyes) if swallowed. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Affected person could experience a latent period of no symptoms, followed by blurred vision and possibly blindness. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes skin irritation. Suspected of causing cancer. Suspected of damaging the unborn child. Harmful if inhaled. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Causes damage to organs through prolonged or repeated exposure. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Treat symptomatically. This product is a CNS depressant. Aspiration hazard.

Contains methanol. Affected person could experience a latent period of no symptoms, followed by blurred vision and possibly blindness.

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SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Use water fog or fine spray, foams, carbon dioxide or dry chemical.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Highly flammable liquid and vapour. Vapors may travel considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

May form explosive peroxides. Rate of peroxide formation is not known.

Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquids - Category 2

Hazardous combustion products

- : Carbon oxides; unburned alcohols ;Nitrogen oxides ; Aldehydes and Other unidentified organic compounds .

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

- : Fight fires from a safe distance. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. For personal protection see section 8.

Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

- : Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with inert, non-combustible absorbent material (e.g. sand, vermiculite), then place material into open, unsealed containers. For waste disposal, see Section 13 of the SDS.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

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- : 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. Wear protective gloves/clothing and eye/face protection. Do not ingest or swallow. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat, open flames and hot surfaces. - No smoking. Use only non-sparking tools. Avoid contact with incompatible materials. Keep container tightly closed. Take precautionary measures against static discharges. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not use pressure to empty drums. Do not cut, weld, drill or grind on or near this container. Follow labeled warnings even after container is emptied.
- Conditions for safe storage** : Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Store locked up. Keep container tightly closed.
- Incompatible materials** : Ammonia ;Acids, strong oxidizing agents, bases.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Toluene	20 ppm	N/Av	200 ppm	300 ppm (Ceiling)
Xylenes	100 ppm	150 ppm	100 ppm (435 mg/m ³)	N/Av
Methyl isobutyl ketone	20 ppm	75 ppm	100 ppm (410 mg/m ³)	N/Av
Methyl ethyl ketone	200 ppm	300 ppm	200 ppm (590 mg/m ³)	N/Av
n-Butyl alcohol	20 ppm	N/Av	100 ppm (300 mg/m ³)	N/Av
Methanol	200 ppm (skin)	250 ppm (skin)	200 ppm (260 mg/m ³)	N/Av
2-Propanol	200 ppm	400 ppm	400 ppm (980 mg/m ³)	N/Av
Ethyl acetate	400 ppm	N/Av	400 ppm (1400 mg/m ³)	N/Av
Acetone	250 ppm	500 ppm	1000 ppm (2400 mg/m ³)	N/Av
n-Butyl-acetate	50 ppm	150 ppm	150 ppm (710 mg/m ³)	N/Av
Solvent naphtha (petroleum), light aromatic	N/Av	N/Av	N/Av	N/Av
2-butoxyethanol	20 ppm	N/Av	50 ppm (240 mg/m ³) (skin)	N/Av
Solvent naphtha, petroleum, medium aliph.	N/Av	N/Av	500 ppm (2000 mg/m ³) (as petroleum distillates, naphtha)	N/Av

Exposure controls

Ventilation and engineering measures

- : Ensure adequate ventilation, especially in confined areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof electrical and ventilating equipment.

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- Respiratory protection** : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.
- Skin protection** : Wear protective gloves/clothing. Advice should be sought from glove suppliers.
- Eye / face protection** : Wear eye/face protection. Wear safety glasses with side shields (or goggles).
- Other protective equipment** : An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Clear, water-white liquid.
- Odour** : Aromatic solvent odour.
- Odour threshold** : Not available.
- pH** : Neutral.
- Melting/Freezing point** : Not available.
- Initial boiling point and boiling range** : 79°C
- Flash point** : -18°C
- Flashpoint (Method)** : Closed cup
- Evaporation rate (BuAe = 1)** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower flammable limit (% by vol.)** : Not available.
- Upper flammable limit (% by vol.)** : Not available.
- Oxidizing properties** : None.
- Explosive properties** : Not explosive
- Vapour pressure** : Not available.
- Vapour density** : Not available.
- Relative density / Specific gravity** : 0.845
- Solubility in water** : Partially soluble. 10%
- Other solubility(ies)** : Not available.
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not applicable.
- Viscosity** : Not available.
- Volatiles (% by weight)** : Not available.
- Volatile organic Compounds (VOC's)** : N/Av
- Absolute pressure of container** : N/Av
- Flame projection length** : N/Av
- Other physical/chemical comments** : None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

- Reactivity** : Not normally reactive.

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- Chemical stability** : Stable under the recommended storage and handling conditions prescribed. May form explosive peroxides. Rate of peroxide formation is not known.
- Possibility of hazardous reactions** : Hazardous polymerization will not occur.
- Conditions to avoid** : Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Avoid heat, open flames, sparks, static electricity and electrical equipment.
- Incompatible materials** : Incompatible materials (see Section 7).
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

- Routes of entry inhalation** : YES
- Routes of entry skin & eye** : YES
- Routes of entry Ingestion** : YES
- Routes of exposure skin absorption** : YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : Harmful if inhaled. May cause irritation of the nose, throat, mucous membranes, and respiratory tract. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Affected person could experience a latent period of no symptoms, followed by blurred vision and possibly blindness.

Sign and symptoms ingestion

- : Harmful if swallowed. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. Contains methanol. Contains material which when ingested may be fatal or cause blindness. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Affected person could experience a latent period of no symptoms, followed by blurred vision and possibly blindness.

Sign and symptoms skin

- : Causes skin irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin. May be absorbed through the skin.

Sign and symptoms eyes

- : Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Potential Chronic Health Effects

- : Prolonged or repeated skin contact may cause drying and irritation. Prolonged overexposure may cause liver and kidney effects.

Mutagenicity

- : Not expected to be mutagenic in humans.

Carcinogenicity

- : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification :Carcinogenicity- Category 2 Suspected of causing cancer. Contains Contains Methyl isobutyl ketone. Methyl isobutyl ketone is classified as possibly carcinogenic by IARC (Group 2B) and the ACGIH (Category A3).

Reproductive effects & Teratogenicity

- : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Reproductive Toxicity - Category 2 Suspected of damaging the unborn child. Contains:Methanol, Toluene and Xylene.

Sensitization to material

- : Not expected to be a skin or respiratory sensitizer.

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Specific target organ effects : Eyes, skin, respiratory system, digestive system, central nervous system. Liver

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification

Specific Target Organ Toxicity, Single Exposure - Category 1

Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects

Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)

Specific target organ toxicity (STOT), repeated exposure - Category 2

Causes damage to the optic nerves (eyes) if swallowed.

May cause drowsiness or dizziness.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials

: None known or reported by the manufacturer.

Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. The calculated ATE values for this mixture are:

ATE dermal = 2343.90 mg/kg

ATE oral = 1628.76 mg/kg

ATE inhalation (vapours) = 12.72 mg/L

<u>Chemical name</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Toluene	7585 ppm (28.1 mg/L) (vapour)	5580 mg/kg	12 125 mg/kg
Xylenes	6350 ppm (27.6 mg/L) (vapours)	3253 mg/kg	12 180 mg/kg
Methyl isobutyl ketone	3000 ppm (12.29 mg/L) (vapour)	2080 mg/kg	> 3000 mg/kg
Methyl ethyl ketone	11 300 ppm (33.3 mg/L) (vapour)	2740 mg/kg	6480 mg/kg
Methanol	> 5000 ppm/6H (4.1 mg/L/4H) (vapour)	5628 mg/kg (rat) The estimated human lethal dose is: 300 - 1000 mg/kg	> 393 mg/kg (Monkey) 15 800 mg/kg (rabbit)
n-Butyl alcohol	8000 ppm (24.3 mg/L) (vapour)	790 - 4360 mg/kg	3402 mg/kg
Acetone	30 000 ppm (71 mg/L) (vapour)	5800 mg/kg	> 15 800 mg/kg
Ethyl acetate	8000 - 16 000 ppm (28.8 - 57.7 mg/L) (vapour)	10 200 mg/kg	> 18 000 mg/kg
2-Propanol	17 000 ppm (41.8 mg/L) (vapour)	4720 mg/kg	12 890 mg/kg
n-Butyl-acetate	> 6867 ppm (32.6 mg/L) (vapour) (No mortality) 1.802 mg/L (aerosol)	10 700 mg/kg	> 5000 mg/kg
Solvent naphtha (petroleum), light aromatic	> 17.7 mg/L (vapour)	8400 mg/kg	> 3160 mg/kg
2-butoxyethanol	450 ppm (2.175 mg/L) (vapour)	530 mg/kg	400 - 500 mg/kg
Solvent naphtha, petroleum, medium aliph.	> 5.5 mg/L (vapour)	> 5000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Contains material that may be harmful in the environment. See the following tables for individual ingredient ecotoxicity data. Do not allow material to contaminate ground water system.

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Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Toluene	108-88-3	5.4 mg/L (pink salmon)	1.4 - 4.0 mg/L	None.
Xylenes	1330-20-7	8.2 mg/L (Rainbow trout)	N/Av	None.
Methyl isobutyl ketone	108-10-1	780 mg/L (Fathead minnow)	N/Av	None.
Methyl ethyl ketone	78-93-3	2993 mg/L (Fathead minnow)	N/Av	None.
n-Butyl alcohol	71-36-3	1376 mg/L (Fathead minnow)	N/Av	None.
Methanol	67-56-1	15 400 mg/L (Bluegill sunfish)	446.7 mg/L/28-day (Fathead minnow) (QSAR)	None.
2-Propanol	67-63-0	9640 mg/L (Fathead minnow)	N/Av	None.
Ethyl acetate	141-78-6	> 100 mg/L	N/Av	None.
Acetone	67-64-1	6210 mg/L (Fathead minnow)	N/Av	None.
n-Butyl-acetate	123-86-4	18 mg/L (Fathead minnow)	N/Av	None.
Solvent naphtha (petroleum), light aromatic	64742-95-6	9.2 mg/L (Rainbow trout)	N/Av	None.
2-butoxyethanol	111-76-2	1490 mg/L (Bluegill sunfish)	> 100 mg/L (Zebra fish)	None.
Solvent naphtha, petroleum, medium aliph.	64742-88-7	2 - 5 mg/L (Rainbow trout)	0.098 mg/L/28-day (QSAR) (NOEL)	None.

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Toluene	108-88-3	3.78 mg/L Ceriodaphnia (water flea)	0.53 - 1 mg/L	None.
Xylenes	1330-20-7	3.2 - 9.56 mg/L (Daphnia magna)	N/Av	None.
Methyl isobutyl ketone	108-10-1	> 200 mg/L (Daphnia magna)	30 mg/L	None.
Methyl ethyl ketone	78-93-3	308 mg/L (Daphnia magna)	N/Av	None.
n-Butyl alcohol	71-36-3	1328 mg/L (Daphnia magna)	4.1 mg/L	None.
Methanol	67-56-1	> 10 000 mg/L (Daphnia magna)	208 mg/L (QSAR)	None.
2-Propanol	67-63-0	> 10 000 mg/L/24hr (Daphnia magna)	N/Av	None.
Ethyl acetate	141-78-6	> 100 mg/L	N/Av	None.
Acetone	67-64-1	15 800 mg/L (Daphnia magna)	1660 mg/L	None.
n-Butyl-acetate	123-86-4	44 mg/L (Daphnia magna)	23 mg/L (Read-across)	None.
Solvent naphtha (petroleum), light aromatic	64742-95-6	6.16 mg/L (Daphnia magna)	N/Av	None.
2-butoxyethanol	111-76-2	835 mg/L (Daphnia magna)	100 mg/L	None.
Solvent naphtha, petroleum, medium aliph.	64742-88-7	1.4 mg/L (Daphnia magna)	0.48 mg/L (QSAR) (NOEL)	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Toluene	108-88-3	N/Av	10 mg/L/72hr (Green algae)	None.
Xylenes	1330-20-7	3.2 - 4.9 mg/L/72hr (Green algae)	N/Av	None.
Methyl isobutyl ketone	108-10-1	400 mg/L/96hr (Green algae)	N/Av	None.
Methyl ethyl ketone	78-93-3	1972 mg/L/72hr (Green algae)	1240 mg/L/96hr	None.
n-Butyl alcohol	71-36-3	225 mg/L/96hr (Green algae)	129 mg/L/96hr	None.
Methanol	67-56-1	22 000 mg/L/96hr (Green algae)	N/Av	None.
2-Propanol	67-63-0	N/Av	N/Av	None.
Ethyl acetate	141-78-6	> 100 mg/L/72hr	N/Av	None.
Acetone	67-64-1	7000 mg/L/96hr (Green algae)	N/Av	None.
n-Butyl-acetate	123-86-4	675 mg/L/72hr (Green algae)	200 mg/L/72hr	None.
Solvent naphtha (petroleum), light aromatic	64742-95-6	N/Av	N/Av	None.
2-butoxyethanol	111-76-2	911 mg/L/72hr (Green algae)	286 mg/L/72hr	None.
Solvent naphtha, petroleum, medium aliph.	64742-88-7	1 - 3 mg/L/72hr (Green algae)	1 mg/L/72hr (Green algae) (NOEL)	None.

Persistence and degradability

: No data is available on the product itself.

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Bioaccumulation potential : See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Toluene (CAS 108-88-3)	2.73	90
Xylenes (CAS 1330-20-7)	3.12 - 3.2	50-58
Methyl isobutyl ketone (CAS 108-10-1)	1.31	3.98
Methyl ethyl ketone (CAS 78-93-3)	0.29	3
n-Butyl alcohol (CAS 71-36-3)	0.88	3
Methanol (CAS 67-56-1)	- 0.82 to - 0.64	<10
2-Propanol (CAS 67-63-0)	0.05	1.0
Ethyl acetate (CAS 141-78-6)	0.73	30
Acetone (CAS 67-64-1)	0.24	0.65
n-Butyl-acetate (CAS 123-86-4)	2.3	15.3 (estimated)
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)	2.1 - 6 (calculated)	10 - 2500 (calculated)
2-butoxyethanol (CAS 111-76-2)	0.8	0.97
Solvent naphtha, petroleum, medium aliph. (CAS 64742-88-7)	3.7 - 6.7	142 - 11,430 (Fish) (calculate

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects





: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : See Section 7 (Handling and Storage) for further details. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1992	Flammable liquids, toxic, n.o.s. (Acetone, Methanol)	3(6.1)	II	
49CFR/DOT Additional information	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass. Refer to 49 CFR Section 173.150.				
ICAO/IATA	UN1992	Flammable liquid, toxic, n.o.s. (Acetone, Methanol)	3(6.1)	II	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				
TDG	UN1992	FLAMMABLE LIQUID, TOXIC, N.O.S. (Acetone, Methanol)	3(6.1)	II	
TDG Additional information	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.				
IMDG	UN1992	FLAMMABLE LIQUID, TOXIC, N.O.S. (Acetone, Methanol)	3(6.1)	II	
IMDG Additional information	Consult the IMDG regulations for exceptions.				

Special precautions for user : Keep away from heat, sparks and open flame. - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

SAFETY DATA SHEET

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Toluene	108-88-3	Yes	1000 lb/ 454 kg	None.	Yes	No
Xylenes	1330-20-7	Yes	100 lb/ 45.4 kg	None.	Yes	No
Methyl isobutyl ketone	108-10-1	Yes	5000 lb/ 2270 kg	None.	Yes	No
Methyl ethyl ketone	78-93-3	Yes	5000 lb/ 2270 kg	None.	No	No
n-Butyl alcohol	71-36-3	Yes	5000 lb/ 2270 kg	None.	Yes	No
Methanol	67-56-1	Yes	5000 lbs / 2270 kg	None.	Yes	No
2-Propanol	67-63-0	Yes	None.	None.	Yes	No
Ethyl acetate	141-78-6	Yes	5000 lb/ 2270 kg	None.	No	No
Acetone	67-64-1	Yes	5000 lb/ 2270 kg	None.	No	No
n-Butyl-acetate	123-86-4	Yes	5000 lb/ 2270 kg	None.	No	No
Solvent naphtha (petroleum), light aromatic	64742-95-6	Yes	None.	None.	No	No
2-butoxyethanol	111-76-2	Yes	None.	None.	No	No
Solvent naphtha, petroleum, medium aliph.	64742-88-7	Yes	None.	None.	No	No

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Skin irritation ; Acute toxicity ; Eye irritation; Reproductive toxicity; Carcinogenicity; Specific target organ toxicity, repeated exposure ; Specific target organ toxicity, single exposure ; Aspiration hazard.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Toluene	108-88-3	No	Developmental	Yes	Yes	Yes	Yes	Yes	Yes
Xylenes	1330-20-7	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Methyl isobutyl ketone	108-10-1	Yes	Cancer; Developmental	Yes	Yes	Yes	Yes	Yes	Yes
Methyl ethyl ketone	78-93-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
n-Butyl alcohol	71-36-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Methanol	67-56-1	No	Developmental	Yes	Yes	Yes	Yes	Yes	Yes
2-Propanol	67-63-0	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl acetate	141-78-6	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
n-Butyl-acetate	123-86-4	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Solvent naphtha (petroleum), light aromatic	64742-95-6	No	N/Ap	No	No	No	No	No	No
2-butoxyethanol	111-76-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Solvent naphtha, petroleum, medium aliph.	64742-88-7	No	N/Ap	No	No	No	Yes	No	No

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Canadian Information:

WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product.

All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Toluene	108-88-3	203-625-9	Present	Present	(3)-2	KE-33936	Present	HSR001227
Xylenes	1330-20-7	215-535-7	Present	Present	(3)-60; (3)-3	KE-35427	Present	HSR000983
Methyl isobutyl ketone	108-10-1	203-550-1	Present	Present	(2)-542	KE-24725	Present	HSR001194
Methyl ethyl ketone	78-93-3	201-159-0	Present	Present	(2)-542	KE-24094	Present	HSR001190
n-Butyl alcohol	71-36-3	200-751-6	Present	Present	(2)-3049	KE-03867	Present	HSR001096
Methanol	67-56-1	200-659-6	Present	Present	(2)-201	KE-23193	Present	HSR001186
2-Propanol	67-63-0	200-661-7	Present	Present	(2)-207	KE-29363	Present	HSR001180
Ethyl acetate	141-78-6	205-500-4	Present	Present	(2)-726	KE-00047	Present	HSR001041
Acetone	67-64-1	200-662-2	Present	Present	(2)-542	KE-29367	Present	HSR001070
n-Butyl-acetate	123-86-4	204-658-1	Present	Present	(2)-735; (2)-731	KE-04179	Present	HSR001091
Solvent naphtha (petroleum), light aromatic	64742-95-6	265-199-0	Present	Present	(9)-1698	KE-31662	Present	May be used as a single component chemical under an appropriate group standard.
2-butoxyethanol	111-76-2	203-905-0	Present	Present	(7)-97; (2)-407	KE-04134	Present	HSR001154
Solvent naphtha, petroleum, medium aliph.	64742-88-7	265-191-7	Present	Present	(9)-1700	KE-31664	Present	May be used as a single component chemical under an appropriate group standard.

SECTION 16. OTHER INFORMATION**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists
 CA: California
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CFR: Code of Federal Regulations
 CNS: Central Nervous System
 CSA: Canadian Standards Association
 DOT: Department of Transportation
 EPA: Environmental Protection Agency
 HMIS: Hazardous Materials Identification System
 HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 Inh: Inhalation
 IUCLID: International Uniform Chemical Information Database
 LC: Lethal Concentration
 LD: Lethal Dose
 MA: Massachusetts
 MN: Minnesota
 N/Ap: Not Applicable
 N/Av: Not Available

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NFPA: National Fire Protection Association
 NIOSH: National Institute of Occupational Safety and Health
 NJ: New Jersey
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PA: Pennsylvania
 PEL: Permissible exposure limit
 RCRA: Resource Conservation and Recovery Act
 RI: Rhode Island
 RTECS: Registry of Toxic Effects of Chemical Substances
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Identification System

- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
 2. International Agency for Research on Cancer Monographs, searched 2017
 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017(Chempendium, HSDB and RTECs).
 4. Material Safety Data Sheets from manufacturer.
 5. US EPA Title III List of Lists - 2017 version.
 6. California Proposition 65 List - 2017 version.
 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2017.

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Revision Information

:

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p><u>Prepared for:</u> Canadian Alcohol Co 4120 Midland Ave Agincourt, ON, Canada, M1S 3B9 Telephone: (416) 293 0123</p>	
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