



# SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Product identifier</b>	IRV-FO21
<b>Other means of identification</b>	Not available
<b>Recommended use</b>	Foamer
<b>Recommended restrictions</b>	None known.
<b>Manufacturer information</b>	Irving Blending & Packaging PO Box 1169 Saint John, NB E2L 4E6 CA Phone: 1.800.574.5823 Emergency Phone: 1.506.648.3060
<b>Supplier</b>	See above.

## 2. Hazards Identification

<b>Physical hazards</b>	Flammable liquids	Category 1
<b>Health hazards</b>	Acute toxicity, dermal	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Carcinogenicity	Category 1B
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 1
	Aspiration hazard	Category 1
<b>Environmental hazards</b>	Not classified.	
<b>WHMIS 2015 defined hazards</b>	Not classified	
<b>Label elements</b>		



**Signal word** Danger

**Hazard statement** Extremely flammable liquid and vapor. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

**Precautionary statement**

**Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection.

Use only outdoors or in a well-ventilated area. Do not breathe mist or vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Response**

In case of fire: Use appropriate media to extinguish.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse.

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

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 exposed or concerned: Get medical advice/attention.

**Storage**

Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)** None known

**WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)** None known

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** 25% of the mixture consists of component(s) of unknown acute dermal toxicity.

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### 3. Composition/Information on Ingredients

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#### Mixture

Chemical name	Common name and synonyms	CAS number	%
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based		72623-86-0	29
Solvent naphtha (petroleum), medium aliphatic		64742-88-7	29
Heptane, Branched, Cyclic And Linear		426260-76-6	25
Distillates (petroleum), light hydrotreated		64742-47-8	9
Ethanol, 2-butoxy-		111-76-2	9
Heptane		142-82-5	1

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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### 4. First Aid Measures

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<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin contact</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
<b>Eye contact</b>	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.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Diarrhea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
<b>General information</b>	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children. Wear rubber gloves and safety glasses with side shields.

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### 5. Fire Fighting Measures

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<b>Suitable extinguishing media</b>	Dry chemical. Water Fog. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Extremely flammable liquid and vapor.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Ammonia.

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## 6. Accidental Release Measures

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### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

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## 7. Handling and Storage

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### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges. Use non-sparking tools and explosion-proof equipment. Use only with adequate ventilation. When using, do not eat, drink or smoke. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Use good industrial hygiene practices in handling this material. Keep container tightly closed.

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store in a cool, dry, well-ventilated place away from incompatible materials. Store in tightly closed container. Keep out of reach of children.

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## 8. Exposure Controls/Personal Protection

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### Occupational exposure limits

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	200 mg/m3	Vapor.
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	97 mg/m3 20 ppm	
Heptane (CAS 142-82-5)	STEL	2050 mg/m3 500 ppm	
	TWA	1640 mg/m3 400 ppm	
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	200 mg/m3	Vapor.

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	200 mg/m3	Non-aerosol.
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	20 ppm	

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**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

Components	Type	Value	Form
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)**

Components	Type	Value	Form
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	20 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)	TWA	5 mg/m3	Inhalable fraction.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.

**Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)**

Components	Type	Value	Form
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	20 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

Components	Type	Value
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	97 mg/m3
		20 ppm
Heptane (CAS 142-82-5)	STEL	2050 mg/m3
	TWA	500 ppm 1640 mg/m3 400 ppm

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Ethanol, 2-butoxy- (CAS 111-76-2)	PEL	240 mg/m3
		50 ppm
Heptane (CAS 142-82-5)	PEL	2000 mg/m3
		500 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	20 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)	TWA	5 mg/m3	Inhalable fraction.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	200 mg/m3	Non-aerosol.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	100 mg/m <sup>3</sup>
Ethanol, 2-butoxy- (CAS 111-76-2)	TWA	24 mg/m <sup>3</sup> 5 ppm
Heptane (CAS 142-82-5)	Ceiling	1800 mg/m <sup>3</sup> 440 ppm
	TWA	350 mg/m <sup>3</sup> 85 ppm
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	TWA	100 mg/m <sup>3</sup>

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Ethanol, 2-butoxy- (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines** Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.

**Canada - Alberta OELs: Skin designation**

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Can be absorbed through the skin.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.

**Canada - British Columbia OELs: Skin designation**

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Can be absorbed through the skin.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.

**Canada - Manitoba OELs: Skin designation**

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.
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**Canada - Ontario OELs: Skin designation**

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.
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**Canada - Saskatchewan OELs: Skin designation**

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Can be absorbed through the skin.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)	Can be absorbed through the skin.
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**US. NIOSH: Pocket Guide to Chemical Hazards**

Ethanol, 2-butoxy- (CAS 111-76-2)	Can be absorbed through the skin.
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**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Ethanol, 2-butoxy- (CAS 111-76-2)	Can be absorbed through the skin.
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**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields.

**Skin protection**

**Hand protection** Rubber gloves. Confirm with a reputable supplier first.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. As required by employer code.

<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Amber
<b>Odor</b>	Aliphatic / Hydrocarbon
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	0.7747 kg/L @ 15°C
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Flash point</b>	32.0 °F (0 °C)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Dispersible
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	0.7747 kg/L @ 15°C
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.

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## 10. Stability and Reactivity

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<b>Reactivity</b>	This product may react with strong reducing agents. This product may react with strong acids. May react with strong bases or oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Bases. Strong oxidizing agents. Reducing agents.

**11. Toxicological Information**

**Routes of exposure** Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

**Information on likely routes of exposure**

**Ingestion** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. May cause stomach distress, nausea or vomiting.

**Inhalation** May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

**Skin contact** Harmful in contact with skin. Causes skin irritation.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

**Eye contact** Causes serious eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Diarrhea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

**Information on toxicological effects**

**Acute toxicity** May be fatal if swallowed and enters airways. Harmful in contact with skin. Narcotic effects.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
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Distillates (petroleum), light hydrotreated (CAS 64742-47-8)

**Acute**

*Dermal*

LD50	Rabbit	> 2000 mg/kg
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*Inhalation*

LC50	Rat	> 2.8 mg/l/4h
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*Oral*

LD50	Rat	> 5000 mg/kg
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Ethanol, 2-butoxy- (CAS 111-76-2)

**Acute**

*Dermal*

LD50	Guinea pig	207 mg/kg
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	Rabbit	400 mg/kg
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		220 mg/kg
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		99 mg/kg
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	Rat	99 mg/kg
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*Inhalation*

LC50	Mouse	700 ppm, 7 Hours
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	Rat	450 ppm, 4 Hours
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		2.2 mg/L, 4 Hours
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*Oral*

LD50	Guinea pig	1200 mg/kg
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	Mouse	1200 mg/kg
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	Rabbit	320 mg/kg
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	Rat	470 mg/kg
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Heptane (CAS 142-82-5)

**Acute**

*Inhalation*

LC50	Rat	103 mg/L, 4 Hours
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LD50	Mouse	75 mg/L, 2 Hours
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*Oral*

LD50	Rat	15000 mg/kg
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Components	Species	Test Results
Heptane, Branched, Cyclic And Linear (CAS 426260-76-6)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 5.2 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg 3000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 6 mg/l/4h 5.3 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Exposure minutes</b>	Not available.	
<b>Erythema value</b>	Not available.	
<b>Oedema value</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Corneal opacity value</b>	Not available.	
<b>Iris lesion value</b>	Not available.	
<b>Conjunctival reddening value</b>	Not available.	
<b>Conjunctival oedema value</b>	Not available.	
<b>Recover days</b>	Not available.	
<b>Respiratory or skin sensitization</b>		
<b>Canada - Alberta OELs: Irritant</b>		
Ethanol, 2-butoxy- (CAS 111-76-2)		Irritant
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	Prolonged or repeated exposure can cause drying, defatting and dermatitis.	
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.	
<b>Carcinogenicity</b>	May cause cancer. See below.	
<b>ACGIH Carcinogens</b>		
Ethanol, 2-butoxy- (CAS 111-76-2)		A3 Confirmed animal carcinogen with unknown relevance to humans.
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)		A2 Suspected human carcinogen.
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)		A4 Not classifiable as a human carcinogen. A3 Confirmed animal carcinogen with unknown relevance to humans.
<b>Canada - Manitoba OELs: carcinogenicity</b>		
2-BUTOXYETHANOL (EGBE) (CAS 111-76-2)		Confirmed animal carcinogen with unknown relevance to humans.
KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR (CAS 64742-88-7)		Confirmed animal carcinogen with unknown relevance to humans.



MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, Suspected human carcinogen.  
 POORLY AND MILDLY REFINED (CAS 72623-86-0)  
 MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, Not classifiable as a human carcinogen.  
 PURE, HIGHLY AND SEVERELY REFINED,  
 INHALABLE FRACTION (CAS 72623-86-0)

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Ethanol, 2-butoxy- (CAS 111-76-2) Volume 88 - 3 Not classifiable as to carcinogenicity to humans.

**US NTP Report on Carcinogens: Known carcinogen**

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0) Known To Be Human Carcinogen.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

<b>Reproductive toxicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness and dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b>Chronic effects</b>	Causes damage to organs through prolonged or repeated exposure. May be harmful if absorbed through skin. Prolonged inhalation may be harmful.  2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

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**12. Ecological Information**

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**Ecotoxicity** See below

**Ecotoxicological data**

Components	Species	Test Results
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)		
<b>Aquatic</b>		
Fish	LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss)	2.9 mg/L, 96 hours
Ethanol, 2-butoxy- (CAS 111-76-2)		
Crustacea	EC50 Daphnia	1819 mg/L, 48 Hours
<b>Aquatic</b>		
Fish	LC50 Inland silverside (Menidia beryllina)	1250 mg/L, 96 hours
Heptane (CAS 142-82-5)		
<b>Aquatic</b>		
Fish	LC50 Mozambique tilapia (Tilapia mossambica)	375 mg/L, 96 hours
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (CAS 72623-86-0)		
Crustacea	EC50 Daphnia	1000 mg/L, 48 Hours
Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)		
Crustacea	EC50 Daphnia	100 mg/L, 48 Hours

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Mobility in soil**

**Mobility in general**

No data available.  
 Not available.

**Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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**13. Disposal Considerations**

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<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## 14. Transport Information

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**Transport of Dangerous Goods (TDG) Proof of Classification**

In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

**U.S. Department of Transportation (DOT)**

**Basic shipping requirements:**

UN number	UN1993
Proper shipping name	Flammable liquids, n.o.s.
Technical name	Solvent naphtha (petroleum), medium aliphatic
Hazard class	3
Packing group	II
Special provisions	IB2, T7, TP1, TP8, TP28
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242

**Transportation of Dangerous Goods (TDG - Canada)**

**Basic shipping requirements:**

UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Technical name	Solvent naphtha (petroleum), medium aliphatic
Hazard class	3
Packing group	II
Special provisions	16, 150

**DOT**



**TDG**



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## 15. Regulatory Information

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**Canadian federal regulations**

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**Canada CEPA Schedule I: Listed substance**

Ethanol, 2-butoxy- (CAS 111-76-2) Listed.

**Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number**

Distillates (petroleum), light hydrotreated (CAS 64742-47-8) 1 TONNES

Ethanol, 2-butoxy- (CAS 111-76-2) 1 TONNES

Heptane (CAS 142-82-5) 1 TONNES

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7) 1 TONNES

**Canada Priority Substances List (Second List): Listed substance**

Ethanol, 2-butoxy- (CAS 111-76-2) Listed.

**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

Not regulated.

**WHMIS 2015 Exemptions**

Not applicable

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Ethanol, 2-butoxy- (CAS 111-76-2) Listed.

Heptane (CAS 142-82-5) Listed.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

No

**SARA 311/312 Hazardous chemical**

No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Ethanol, 2-butoxy-	111-76-2	9

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**US state regulations****US - California Hazardous Substances (Director's): Listed substance**

Ethanol, 2-butoxy- (CAS 111-76-2) Listed.

Heptane (CAS 142-82-5) Listed.

**US - Illinois Chemical Safety Act: Listed substance**

Ethanol, 2-butoxy- (CAS 111-76-2)

Heptane (CAS 142-82-5)

**US - Louisiana Spill Reporting: Listed substance**

Ethanol, 2-butoxy- (CAS 111-76-2) Listed.

Heptane (CAS 142-82-5) Listed.

**US - Minnesota Haz Subs: Listed substance**

Ethanol, 2-butoxy- (CAS 111-76-2) Listed.

Heptane (CAS 142-82-5) Listed.

**US - New Jersey RTK - Substances: Listed substance**

Ethanol, 2-butoxy- (CAS 111-76-2)

Heptane (CAS 142-82-5)

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)

**US - Texas Effects Screening Levels: Listed substance**

Distillates (petroleum), light hydrotreated (CAS 64742-47-8) Listed.

Ethanol, 2-butoxy- (CAS 111-76-2) Listed.

Heptane (CAS 142-82-5) Listed.

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7) Listed.

**US. Massachusetts RTK - Substance List**

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)

Ethanol, 2-butoxy- (CAS 111-76-2)

Heptane (CAS 142-82-5)

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)

**US. New Jersey Worker and Community Right-to-Know Act**

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)  
 Ethanol, 2-butoxy- (CAS 111-76-2)  
 Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)  
 Ethanol, 2-butoxy- (CAS 111-76-2)  
 Heptane (CAS 142-82-5)  
 Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)

**US. Rhode Island RTK**

Ethanol, 2-butoxy- (CAS 111-76-2)

**US. California Proposition 65**

Not Listed.

**Inventory status**

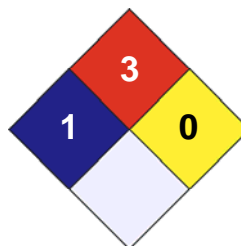
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. Other Information**

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 1
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. The information in the sheet was written based on the best knowledge and experience currently available.

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**Version #**

01

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**Prepared by**

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

**Other information**

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.