

**CROWN Premium Chain & Cable Lube -**  
**Product Number 115A**  
**SDS Preparation Date (mm/dd/yyyy): 08/29/2016**

Part No.: 363115A

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **CROWN Premium Chain & Cable Lube -  
Product Number 115A**

**Product Code(s)** : 363115

**Recommended use of the chemical and restrictions on use**

: Lubricating oil - Aerosol  
No restrictions on use known.

**Chemical family**

: Mixture of: Petroleum oil; Propellant; Glycol ethers; Other lubricant additives; Rust preventative

**Name, address, and telephone number of the supplier:**

**Crown Equipment Corporation**

44 South Washington Street  
New Bremen, OH, U.S.A.  
45869

Supplier's Telephone # : (419) 629-2311

**24 Hr. Emergency Tel #** : CHEM-TEL: (800) 255-3924 (Within Continental U.S.); CHEM-TEL: +1 (813) 248-0585 (Outside U.S., please call collect).

**Name, address, and telephone number of the manufacturer:**

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Liquid contained in a pressurized, aerosol can. Off white liquid. Petroleum odor.

**Most important hazards:**

Extremely flammable aerosol. May be ignited by open flame. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.

Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Harmful to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment. See Section 12 for more environmental information.

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). Hazardous classification:

Flammable aerosol - Category 1  
Gases under pressure

**Label elements**

*Hazard pictogram(s)*



*Signal Word*

DANGER!

*Hazard statement(s)*

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.



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### Precautionary statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
Store in a well-ventilated place.

### Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May be mildly irritating to skin, eyes and respiratory system. In extremely high concentrations, may cause symptoms of central nervous system depression. May cause gastrointestinal irritation. Contains: 2-butoxyethanol. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data. Humans are less sensitive to these effects.

Environmental precautions:

Harmful to aquatic life. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

### 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>
Liquefied petroleum gases, sweetened	Propane-Isobutane mixture L.P.G.	68476-86-8	20%
Hydrotreated naphthenic petroleum	Petroleum hydrocarbon	64742-53-6	16%
2-butoxyethanol	Ethylene glycol monobutyl ether butyl cellosolve Glycol Ether EB EGBE	111-76-2	2.4%

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
- Inhalation* : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing is irregular or stopped, administer artificial respiration. If irritation or symptoms develop, seek medical attention.
- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. If irritation or symptoms develop, seek medical attention. Wash contaminated clothing before reuse.
- Eye contact* : Flush eyes with water for at least 15 minutes. If irritation or symptoms develop, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

- : May be mildly irritating to skin, eyes and respiratory system. May cause coughing and breathing difficulties. Symptoms may include mild redness and swelling. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Contains: 2-butoxyethanol. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data. Effects appear to be species specific. Humans are less sensitive to these effects.



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### Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

: Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol resistant foam; Water fog .

##### *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

: Extremely flammable aerosol. Pressurized container: may burst if heated. Vapours are heavier than air and may spread along floors. Product may float, and be re-ignited at the water's surface. This product is contained under pressure, and could explode when exposed to heat and flame.

#### Flammability classification (OSHA 29 CFR 1910.106)

: Flammable aerosol. - Category 1

#### Hazardous combustion products

: Carbon oxides; Hydrocarbons; Sulfur oxides; Phosphorus oxides; Nitrogen oxides (NO<sub>x</sub>); Polycyclic aromatic hydrocarbons; 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. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

##### *Special fire-fighting procedures*

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Shield personnel to protect from venting or rupturing containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Prevent product from entering drains, sewers, waterways and soil.

#### Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

#### 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): None known.

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.



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### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**

: Use with adequate ventilation. Avoid breathing dust, mist or vapours. Wear suitable protective equipment during handling. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Keep away from incompatibles. Always replace cap after use. Wash thoroughly after handling.

**Conditions for safe storage** : Store in cool/well-ventilated place. 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. Protect from sunlight. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

**Incompatible materials** : Strong oxidizing agents; Strong acids; Strong bases; Reducing agents

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
	Liquefied petroleum gases, sweetened	1000 ppm (as 'Butane, all isomers')	N/Av	1000 ppm (1800 mg/m <sup>3</sup> ) (as Propane)
Hydrotreated naphthenic petroleum	5 mg/m <sup>3</sup> (As 'Oil mist, mineral') (inhalable)	N/Av	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av
2-butoxyethanol	20 ppm	N/Av	50 ppm (240 mg/m <sup>3</sup> ) (skin)	N/Av

**Exposure controls**

**Ventilation and engineering measures**

: Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

**Respiratory protection** : If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. 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. Advice should be sought from respiratory protection specialists.

**Skin protection** : Gloves impervious to the material are recommended. Wear sufficient clothing to prevent skin contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye / face protection** : Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields.

**Other protective equipment** : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

**General hygiene considerations**

: Avoid breathing dust, mist or vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.



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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	: Liquid contained in a pressurized, aerosol can. Off white
<b>Odour</b>	: Petroleum odor.
<b>Odour threshold</b>	: N/Av
<b>pH</b>	: N/Av
<b>Melting/Freezing point</b>	: N/Av
<b>Initial boiling point and boiling range</b>	: > 168°C (334°F) (concentrate) (based on ingredients)
<b>Flash point</b>	: 177°C (351°F) (concentrate)
<b>Flashpoint (Method)</b>	: Cleveland Open Cup
<b>Evaporation rate (BuAe = 1)</b>	: > 1 (butyl acetate = 1)
<b>Flammability (solid, gas)</b>	: Not applicable.
<b>Lower flammable limit (% by vol.)</b>	: N/Av
<b>Upper flammable limit (% by vol.)</b>	: N/Av
<b>Oxidizing properties</b>	: None known.
<b>Explosive properties</b>	: Aerosols are sensitive to mechanical impact. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.
<b>Vapour pressure</b>	: 4137 mmHg @ 54°C (129°F)
<b>Vapour density</b>	: > 1 (Air = 1)
<b>Relative density / Specific gravity</b>	: 0.93 (concentrate)
<b>Solubility in water</b>	: Insoluble.
<b>Other solubility(ies)</b>	: N/Av
<b>Partition coefficient: n-octanol/water or Coefficient of water/oil distribution</b>	: N/Av
<b>Auto-ignition temperature</b>	: N/Av
<b>Decomposition temperature</b>	: N/Av
<b>Viscosity</b>	: N/Av
<b>Volatiles (% by weight)</b>	: 20%
<b>Volatile organic Compounds (VOC's)</b>	: N/Av
<b>Absolute pressure of container</b>	: N/Av
<b>Flame projection length</b>	: N/Av
<b>Other physical/chemical comments</b>	: Chemical heat of combustion: 30 kJ/g

### SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	: Not normally reactive.
<b>Chemical stability</b>	: Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	: Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	: Direct sources of heat. Keep away from direct sunlight. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
<b>Incompatible materials</b>	: Strong oxidizing agents; Strong acids; Strong bases; Reducing agents



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### 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*

: May cause mild transient irritation. May cause coughing and breathing difficulties. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression.

###### *Sign and symptoms ingestion*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

###### *Sign and symptoms skin*

: May cause mild skin irritation. Symptoms may include mild redness and swelling. May be absorbed through the skin.

###### *Sign and symptoms eyes*

: Direct eye contact may cause slight or mild, transient irritation. Direct eye contact may cause temporary redness.

##### Potential Chronic Health Effects

: Contains: 2-butoxyethanol. Chronic overexposure to 2-butoxyethanol may cause liver, kidney and blood damage, based on animal data. Effects appear to be species specific. Humans are less sensitive to these effects.

##### Mutagenicity

: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

##### Carcinogenicity

: Not classifiable as a human carcinogen. No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

##### Reproductive effects & Teratogenicity

: This product is not expected to cause reproductive or developmental effects.

##### Sensitization to material

: No data available to indicate product or components may be respiratory sensitizers. No data available to indicate product or components may be skin sensitizers.

##### Specific target organ effects

: According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.

Mild effects may be seen in the following organs: Eyes; Skin; Respiratory system; Digestive system; Central nervous system; Liver; Kidneys; Blood forming system.

##### Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

##### Synergistic materials

: None reported by the manufacturer.



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**Toxicological data** : No data is available on the product itself. The calculated ATE values for this mixture are:

ATE oral = 22 083 mg/kg  
ATE dermal = 16 667 mg/kg  
ATE inhalation (vapours) = 90.6 mg/L/4H  
ATE inhalation (dust/mist) = 13.6 mg/L/4H

See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Liquefied petroleum gases, sweetened	N/Av	N/Ap (gas)	N/Ap (gas)
Hydrotreated naphthenic petroleum	≥ 2.18 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg
2-butoxyethanol	450 ppm (2.175 mg/L) (vapour)	530 mg/kg	400 - 500 mg/kg

**Other important toxicological hazards**

: None reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : No data is available on the product itself. Should not be released into the environment.

See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Liquefied petroleum gases, sweetened	68476-86-8	N/Ap	N/Ap	N/Ap
Hydrotreated naphthenic petroleum	64742-53-6	> 100 mg/L (Fathead minnow)	N/Av	None.
2-butoxyethanol	111-76-2	1490 mg/L (Bluegill sunfish)	> 100 mg/L (Zebra fish)	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Liquefied petroleum gases, sweetened	68476-86-8	N/Ap	N/Ap	N/Ap
Hydrotreated naphthenic petroleum	64742-53-6	> 10 000 mg/L (Daphnia magna)	10 mg/L (NOEL)	None.
2-butoxyethanol	111-76-2	835 mg/L (Daphnia magna)	100 mg/L	None.



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<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Liquefied petroleum gases, sweetened	68476-86-8	N/Ap	N/Ap	N/Ap
Hydrotreated naphthenic petroleum	64742-53-6	N/Av	> 100 mg/L/72hr (NOEL)	None.
2-butoxyethanol	111-76-2	911 mg/L/72hr (Green algae)	286 mg/L/72hr	None.

### Persistence and degradability

- : The product itself has not been tested.  
The following ingredients are considered to be readily biodegradable: 2-butoxyethanol.  
Contains the following chemicals which are not readily biodegradable: Hydrotreated naphthenic petroleum .

### Bioaccumulation potential

- : The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Liquefied petroleum gases, sweetened (CAS 68476-86-8)	2.89 (Butane)	33 (Butane)
Hydrotreated naphthenic petroleum (CAS 64742-53-6)	3.9 - 6 (calculated)	N/Av
2-butoxyethanol (CAS 111-76-2)	0.8	0.97

### Mobility in soil

- : The product itself has not been tested.

### Other Adverse Environmental effects

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

## SECTION 13. DISPOSAL CONSIDERATIONS

### Handling for Disposal

- : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

### 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. For disposal of unused or waste material, check with local, state and federal environmental agencies.





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### SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1950	AEROSOLS	2.1	none	
<b>TDG Additional information</b>	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass.				
49CFR/DOT	UN1950	Aerosols	2.1	none	
<b>49CFR/DOT Additional information</b>	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Refer to 49CFR section 173.306 for additional information.				
ICAO/IATA	UN1950	Aerosols, flammable	2.1	none	
<b>ICAO/IATA Additional information</b>	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.				
IMDG	UN1950	AEROSOLS	2.1	none	
<b>IMDG Additional information</b>	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass.				

**Special precautions for user** : Appropriate advice on safety must accompany the package. 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 applicable.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

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

<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
Liquefied petroleum gases, sweetened	68476-86-8	Yes	None.	None.	No	N/Ap
Hydrotreated naphthenic petroleum	64742-53-6	Yes	None.	None.	No	N/Ap
2-butoxyethanol	111-76-2	Yes	None.	None.	No	N/Ap



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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Pressure. 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
Liquefied petroleum gases, sweetened	68476-86-8	No	N/Ap	No	No	No	No	No	No
Hydrotreated naphthenic petroleum	64742-53-6	No	N/Ap	No	Yes	No	No	No	No
2-butoxyethanol	111-76-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

### Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI:

2-butoxyethanol (Part 1, Group A Substance; Part 5: Individual Substances)

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

### 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	New Zealand IOC
Liquefied petroleum gases, sweetened	68476-86-8	270-705-8	Present	Present	Not listed	KE-28192	Present	May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.
Hydrotreated naphthenic petroleum	64742-53-6	265-156-6	Present	Present	(9)-1692	KE-12552	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

## SECTION 16. OTHER INFORMATION

### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists



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AICS: Australian Inventory of Chemical Substances  
ATE: Acute Toxicity Estimate  
CA: California  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
CFR: Code of Federal Regulations  
CSA: Canadian Standards Association  
DOT: Department of Transportation  
EC50: Effective Concentration 50%  
EINECS: European Inventory of Existing Commercial chemical Substances  
ENCS: Existing and New Chemical Substances  
EPA: Environmental Protection Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IBC: Intermediate Bulk Container  
IECSC: Inventory of Existing Chemical Substances  
IMDG: International Maritime Dangerous Goods  
IOC: Inventory of Chemicals  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
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 2016.
3. Canadian Centre for Occupational Health and Safety, CInfoWeb databases, 2016 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - March 2015 version.
6. California Proposition 65 List - August 5, 2016 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2016.



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## SAFETY DATA SHEET

**Preparation Date (mm/dd/yyyy)**

: 08/29/2016

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

**HMIS Rating**

: \*- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe  
*Health: 1 Flammability: 4 Reactivity: 1*

**NFPA Rating**

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe  
 : *Health: 1 Flammability: 4 Instability: 0 Special Hazards: None.*

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