

CC4016

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **CC4016**

**Product Code(s)** : Not available.

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

: Degreaser  
Use pattern: Professional Use Only  
Recommended restrictions: None Known.

**Chemical family** : Mixture

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

**CEDA Industrial Services LP**

2130 121 Avenue NE  
Edmonton, AB,  
T6S 1B1

Supplier's Telephone # : 780-472-6766

**24 Hr. Emergency Tel #** : 780-472-6766

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

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Clear yellow to amber liquid. Citrus 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 3

Skin Irritation - Category 2

Serious eye damage/eye irritation - Category 1

Skin sensitization - Category 1A

Aspiration Toxicity - Category 1

**Label elements**

*Hazard pictogram(s)*



*Signal Word*

DANGER!

*Hazard statement(s)*

Flammable liquid and vapour.  
Causes skin irritation.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
May be fatal if swallowed and enters airways.



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### Precautionary statement(s)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Use non-sparking tools.  
Take precautionary measures against static discharge.  
Ground and bond container and receiving equipment.  
Avoid breathing mist or vapours.  
Use explosion-proof electrical and ventilating equipment.  
Wash hands after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves and eye/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTRE or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

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 in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local regulation.

### Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.

## 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>
Hydrocarbons, terpene processing by-products	Terpene	68956-56-9	70.0 - 75.0
2-Propanol, 1-phenoxy-	Propylene glycol phenyl ether	770-35-4	7.0 - 10.0
2-Propanol, 1-butoxy-	Propylene glycol monobutyl ether	5131-66-8	3.0 - 5.0
Diocetyl sodium sulfosuccinate	Docusate sodium	577-11-7	1.0 - 3.0
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-Propanamine	Benzenesulfonic acid, C10-16-alkyl derivs., compds. with 2-propanamine	68584-24-7	1.0 - 3.0

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* : Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor/physician.

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- 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. Obtain medical attention if symptoms develop and persist.
- Skin contact* : Flush skin with large amounts of water. If irritation or symptoms develop, seek medical attention.
- Eye contact* : Flush eyes with water for at least 20 minutes. Immediately call a POISON CENTER or doctor/physician.

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

- : Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Permanent eye damage including blindness could result. Causes skin irritation. Symptoms may include redness, itching and swelling. May cause an allergic skin reaction (e.g. swelling, rash and eczema). Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects. Ingestion may cause irritation of the mouth, throat and stomach.

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

- : Treat symptomatically. Aspiration hazard.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### *Suitable extinguishing media*

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and 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

- : Flammable liquid and vapor. Burning may produce irritating, toxic and obnoxious fumes. Vapours may be heavier than air and may collect in confined and low-lying areas.

### Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquids - Category 3

### Hazardous combustion products

- : May form toxic materials, such as carbon dioxide, carbon monoxide, various hydrocarbons, nitrogen compounds, etc. when burned.

### 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*

- : 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. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Restrict access to area until completion of clean-up.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

### Methods and material for containment and cleaning up



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- : Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

**Special spill response procedures**

- : Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.  
 US CERCLA Reportable quantity (RQ): See section 15.

**SECTION 7. HANDLING AND STORAGE**

**Precautions for safe handling**

- : Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Avoid contact with eyes, skin and clothing. Keep away from incompatibles. Wash thoroughly after handling. Avoid breathing mist or vapor. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Keep away from flames and hot surfaces. - No smoking. Use non-sparking tools and explosion-proof equipment. Keep container tightly closed. Use explosion-proof electrical and ventilating equipment. Bond and ground transfer containers and equipment. Take precautionary measures against static discharges.

- Conditions for safe storage** : Store locked up. Store in a cool, dry, well-ventilated area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

- Incompatible materials** : Strong acids ;Strong oxidizing agents (e.g. hydrogen peroxide, nitric acid)

**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>
Hydrocarbons, terpene processing by-products	N/Av	N/Av	N/Av	N/Av
2-Propanol, 1-phenoxy-	N/Av	N/Av	N/Av	N/Av
2-Propanol, 1-butoxy-	N/Av	N/Av	N/Av	N/Av
Diocetyl sodium sulfosuccinate	N/Av	N/Av	N/Av	N/Av
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-Propanamine	N/Av	N/Av	N/Av	N/Av

**Exposure controls**

**Ventilation and engineering measures**

- : Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof electrical and ventilating equipment.

- Respiratory protection** : Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust and/or fumes). Advice should be sought from respiratory protection specialists.

- Skin protection** : Wear protective gloves. Advice should be sought from glove suppliers.

- Eye / face protection** : Wear eye/face protection. Wear safety glasses with side shields ( or goggles).

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**Other protective equipment** : Wear sufficient clothing to prevent skin contact. Depending on conditions of use, an impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.

**General hygiene considerations**

: Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Clear amber or yellow liquid.  
**Odour** : Citrus odour.  
**Odour threshold** : N/Av  
**pH** : 10.1  
**Melting/Freezing point** : <-35°C  
**Initial boiling point and boiling range**  
: Not available.  
**Flash point** : 45°C  
**Flashpoint (Method)** : Tag closed cup  
**Evaporation rate (BuAe = 1)** : Not available.  
**Flammability (solid, gas)** : Not applicable.  
**Lower flammable limit (% by vol.)**  
: N/Av  
**Upper flammable limit (% by vol.)**  
: N/Av  
**Oxidizing properties** : Not applicable  
**Explosive properties** : Not applicable.  
**Vapour pressure** : Not available.  
**Vapour density** : Not available.  
**Relative density / Specific gravity**  
: 0.878  
**Solubility in water** : Soluble.  
**Other solubility(ies)** : Not available.  
**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**  
: N/Av  
**Auto-ignition temperature** : Not applicable.  
**Decomposition temperature** : Not available.  
**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** : This product is not reactive.  
**Chemical stability** : Material is stable under normal conditions.



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### Possibility of hazardous reactions

: No dangerous reaction known under conditions of normal use.

### Conditions to avoid

: Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Keep away from heat, sparks and open flame.

### Incompatible materials

: See Section 7 (Handling and Storage) for further details.

### 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

: NO

### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

##### *Sign and symptoms Inhalation*

: May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.

##### *Sign and symptoms ingestion*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration hazard - material may cause lung inflammation or damage if it enters lungs through vomiting or swallowing.

##### *Sign and symptoms skin*

: Causes skin irritation. Symptoms may include redness, itching and swelling.

##### *Sign and symptoms eyes*

: Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Permanent eye damage including blindness could result.

#### Potential Chronic Health Effects

: Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

#### Mutagenicity

: Not expected to be mutagenic in humans.

#### Carcinogenicity

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

#### Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

#### Sensitization to material

: 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: Skin sensitization - Category 1A May cause an allergic skin reaction.

#### Specific target organ effects

: This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

#### Medical conditions aggravated by overexposure

: None known.

#### Synergistic materials

: Not available.

#### Toxicological data

: There is no data available for this product. The calculated ATE values for this mixture are: ATE oral = 82608.69 mg/kg

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<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>
Hydrocarbons, terpene processing by-products	N/Av	N/Av	N/Av
2-Propanol, 1-phenoxy-	>5.4 mg/L (no deaths)	2830 mg/kg	2000mg/kg (no deaths)
2-Propanol, 1-butoxy-	650 ppm (no deaths)	>3200mg/kg	>2000mg/kg
Diocetyl sodium sulfosuccinate	N/Av	1900 mg/kg	>10000mg/kg
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-Propanamine	N/Av	>2000 mg/kg	N/Av

**Other important toxicological hazards**

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Not classified for hazards to the environment. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**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>
Hydrocarbons, terpene processing by-products	68956-56-9	5.07 mg/L (Zebra fish)	N/Av	None.
2-Propanol, 1-phenoxy-	770-35-4	280 mg/L (Fathead minnow)	N/Av	None.
2-Propanol, 1-butoxy-	5131-66-8	560mg/L (Poecilia Reticulata)	N/Av	None.
Diocetyl sodium sulfosuccinate	577-11-7	35.9mg/L (Bluegill sunfish)	N/Av	None.
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-Propanamine	68584-24-7	N/Av	N/Av	None.

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Hydrocarbons, terpene processing by-products	68956-56-9	2.1mg/L (Daphnia magna)	N/Av	None.
2-Propanol, 1-phenoxy-	770-35-4	370 mg/L (Daphnia magna)	N/Av	None.
2-Propanol, 1-butoxy-	5131-66-8	1000 mg/L (Daphnia magna)	N/Av	None.
Diocetyl sodium sulfosuccinate	577-11-7	34.9 mg/L (Daphnia magna)	N/Av	None.
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-Propanamine	68584-24-7	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Hydrocarbons, terpene processing by-products	68956-56-9	3.081mg/L (Green algae)	N/Av	None.
2-Propanol, 1-phenoxy-	770-35-4	74.5 mg/L (Green algae)	12.5 mg/L (Green algae)	None.
2-Propanol, 1-butoxy-	5131-66-8	>1000mg/L (Selenastrum capricornutum)	560mg/L (Selenastrum capricornutum)	None.
Diocetyl sodium sulfosuccinate	577-11-7	82.5mg/L (Green algae)	N/Av	None.
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-Propanamine	68584-24-7	N/Av	N/Av	None.

**Persistence and degradability**

: No data is available on the product itself.

**Bioaccumulation potential**

: No data is available on the product itself. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Hydrocarbons, terpene processing by-products (CAS 68956-56-9)	4.24	N/Av
2-Propanol, 1-phenoxy- (CAS 770-35-4)	1.41	N/Av
2-Propanol, 1-butoxy- (CAS 5131-66-8)	1.2	3.16
Diocetyl sodium sulfosuccinate (CAS 577-11-7)	1.998	3.47 - 3.78 species: fish
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-Propanamine (CAS 68584-24-7)	3.16	1.2

**Mobility in soil**

: No data is available on the product itself.

**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.

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### SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : 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.
- 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.

### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN2319	TERPENE HYDROCARBONS, N.O.S.	3	III	
<b>TDG Additional information</b>	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				
49CFR/DOT	UN2319	TERPENE HYDROCARBONS, N.O.S.	3	III	
<b>49CFR/DOT Additional information</b>	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass.				
ICAO/IATA	UN2319	Terpene hydrocarbons, n.o.s.	3	III	
<b>ICAO/IATA Additional information</b>	Refer to ICAO/IATA Packing Instruction				
IMDG	UN2319	TERPENE HYDROCARBONS, N.O.S.	3	III	
<b>IMDG Additional information</b>	Consult the IMDG regulations for exceptions.				

**Special precautions for user** : None known or reported by the manufacturer.

**Environmental hazards** : This substance does not meet the criteria for an environmentally hazardous substance 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.



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### 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
Hydrocarbons, terpene processing by-products	68956-56-9	Yes	N/Ap	N/Av	No	N/Ap
2-Propanol, 1-phenoxy-	770-35-4	Yes	None.	N/Av	No	N/Ap
2-Propanol, 1-butoxy-	5131-66-8	Yes	None.	None.	No	N/Ap
Diocetyl sodium sulfosuccinate	577-11-7	Yes	N/Ap	N/Av	No	N/Ap
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-Propanamine	68584-24-7	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Eye Damage Skin irritation; Skin sensitization ; 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
Hydrocarbons, terpene processing by-products	68956-56-9	No	N/Ap	No	No	No	No	No	No
2-Propanol, 1-phenoxy-	770-35-4	No	N/Ap	No	No	No	No	No	No
2-Propanol, 1-butoxy-	5131-66-8	No	N/Ap	No	No	No	Yes	Yes	No
Diocetyl sodium sulfosuccinate	577-11-7	No	N/Ap	No	No	No	No	No	No
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-Propanamine	68584-24-7	No	N/Ap	No	No	No	No	No	No

#### Canadian Information:

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

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



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### International Information:

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

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Hydrocarbons, terpene processing by-products	68956-56-9	273-309-3	Present	Present	N/Av	KE-20100	Present	N/Av
2-Propanol, 1-phenoxy-	770-35-4	212-222-7	Present	Present	(7)-78	KE-28261	Present	HSR003522
2-Propanol, 1-butoxy-	5131-66-8	225-878-4	Listed	Listed	Listed	Listed	Listed	Listed
Diocetyl sodium sulfosuccinate	577-11-7	209-406-4	Present	Present	(2)-1623	KE-32402	Present	HSR003166
Benzenesulfonic acid, C10-16-alkyl derivatives, compounds with 2-Propanamine	68584-24-7	271-531-5	Present	N/Av	N/Av	N/Av	N/Av	N/Av

### SECTION 16. OTHER INFORMATION

#### Legend

: ACGIH: American Conference of Governmental Industrial Hygienists  
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  
EPA: Environmental Protection Agency  
HMIS: Hazardous Materials Identification System  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
MN: Minnesota  
N/Av: Not Available  
N/Av: Not Available  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
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  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

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- 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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**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

<p><b><u>Prepared for:</u></b> CEDA Industrial Services LP 2130 121 Avenue NE Edmonton, AB T6S 1B1 780-472-6766</p>	
<p><b><u>Prepared by:</u></b> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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