

DPD Powder

CR-0870

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **DPD Powder**

Other means of identification : CR-0870

Recommended use of the chemical and restrictions on use

: Use as directed by manufacturer for purposes directly related to water testing.  
Recommended restrictions: None known.

Chemical family

: Mixture.

Name, address, and telephone number of the supplier:

**Lowry & Associates, Div. of Chem-Aquascience, Inc.**

5-1151 Gorham Street  
Newmarket, ON, Canada  
L3Y 8Y1

Supplier's Telephone # : (905) 836-0505, Hours 09:00 to 16:30

24 Hr. Emergency Tel # : Not available.

Name, address, and telephone number of the manufacturer:

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Off-white powder. Odorless.

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:

Eye damage/irritation - Category 2A

Skin Corrosion/Irritation - Category 2

Label elements

Hazard pictogram(s)



Signal Word

WARNING!

Hazard statement(s)

Causes serious eye irritation.

Causes skin irritation.

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### Precautionary statement(s)

Wash skin thoroughly after handling.  
 Wear protective gloves/clothing 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.  
 If eye irritation persists: Get medical advice/attention.  
 IF ON SKIN: Wash with plenty of water.  
 If skin irritation occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash it before reuse.

### Other hazards

Product dust may be irritating to eyes, skin and respiratory system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### 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>
Sodium phosphate, dibasic	Disodium phosphate	7558-79-4	15.0 - 40.0
Ethylenediaminetetraacetic acid disodium salt	EDTA Disodium dihydrate	6381-92-6	0.5 - 5.0
N,N-Diethylbenzene-1,4-diammonium sulphate	DPD Sulfate	6283-63-2	1.0 - 5.0
Citric acid, anhydrous	2-Hydroxypropanetricarboxylic acid	77-92-9	1.0 - 5.0
Potassium Phosphate Monobasic	Potassium dihydrogen phosphate; MKP	7778-77-0	45.0 - 70.0

Nonhazardous and other components below reportable levels.

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Seek immediate medical attention/advice.
- Inhalation* : Immediately remove person to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Seek immediate medical attention/advice.
- Skin contact* : Flush contaminated area with lukewarm, gently running water for at least 5 to 10 minutes or until the chemical is removed. If skin irritation occurs: get medical advice/attention.
- Eye contact* : Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

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

- : Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Direct skin contact may cause slight or mild, transient irritation. Direct eye contact may cause slight or mild, transient irritation.

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

- : Treat symptomatically.

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### 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

- : Not considered flammable. Dust may be ignited if suspended in air, however, not expected to be a significant fire risk.

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

- : Not flammable.

#### Hazardous combustion products

- : Oxides of phosphorus; Sodium oxides.

#### 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. Use water to cool fire-exposed containers. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control.

### 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. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

#### Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

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

- : Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Dike for water control. Sweep up or vacuum up spillage and collect in suitable container for disposal.

#### 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.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

- : Use only in well-ventilated areas. Avoid breathing dust and fume. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat and flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Avoid dust formation.

#### Conditions for safe storage

- : Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

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**Incompatible materials** : Strong acids and oxidizing agents; Bases

### 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>
	Sodium phosphate, dibasic	N/Av	N/Av	N/Av
Ethylenediaminetetraacetic acid disodium salt	N/Av	N/Av	N/Av	N/Av
N,N-Diethylbenzene-1,4-diammonium sulphate	N/Av	N/Av	N/Av	N/Av
Citric acid, anhydrous	N/Av	N/Av	N/Av	N/Av
Potassium Phosphate Monobasic	N/Av	N/Av	N/Av	N/Av

#### Exposure controls

##### Ventilation and engineering measures

: Use only in well-ventilated areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

##### Respiratory protection

: Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. A self contained breathing apparatus should be used in emergency situations or instances where exposure levels are not known. Seek advice 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. Advice should be sought from glove suppliers.

##### Eye / face protection

: Safety glasses with side shields should be used with this product.

##### Other protective equipment

: Other equipment may be required depending on workplace standards.

##### General hygiene considerations

: Avoid breathing dust and fume. Do not ingest. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with 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** : Off-white powder.

**Odour** : No odour.

**Odour threshold** : Not applicable.

**pH** : Not available.

**Melting Point/Freezing point** : Not available.

##### Initial boiling point and boiling range

: Not available.

**Flash point** : Not applicable.

**Flashpoint (Method)** : Not applicable.

**Evaporation rate (BuAe = 1)** : N/Av

**Flammability (solid, gas)** : Not applicable.

**Lower flammable limit (% by vol.)** : Not applicable.

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### Upper flammable limit (% by vol.)

: Not applicable.

### Oxidizing properties

: None known.

### Explosive properties

: Dust may be ignited if suspended in air, however, not expected to be a significant fire risk.

### Vapour pressure

: negligible

### Vapour density

: Not available.

### Relative density / Specific gravity

: 1.60

### Solubility in water

: Soluble

### Other solubility(ies)

: Not available.

### Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not available.

### Auto-ignition temperature

: N/Ap

### Decomposition temperature

: Not available.

### Viscosity

: N/Av

### Volatiles (% by weight)

: >95%

### Volatile organic Compounds (VOC's)

: N/Av

### Absolute pressure of container

: N/Ap

### Flame projection length

: N/Ap

### Other physical/chemical comments

: None known or reported by the manufacturer.

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

: Not normally reactive.

### Chemical stability

: Material is stable under normal conditions.

### Possibility of hazardous reactions

: Hazardous polymerization does not occur.

### Conditions to avoid

: Avoid dust formation. Avoid heat and open flame. Keep away from incompatibles. Keep container tightly closed when not in use.

### 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

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### Potential Health Effects:

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

##### *Sign and symptoms Inhalation*

- : Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

##### *Sign and symptoms ingestion*

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

##### *Sign and symptoms skin*

- : Direct skin contact may cause slight or mild, transient irritation.

##### *Sign and symptoms eyes*

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

#### Potential Chronic Health Effects

- : Chronic skin contact with low concentrations may cause 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 have other reproductive effects.

#### Sensitization to material

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

#### 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

- : Pre-existing skin, eye and respiratory disorders.

#### Synergistic materials

- : Not available.

#### Toxicological data

- : There is no data available for this product.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Sodium phosphate, dibasic	N/Av	>2000 mg/kg (No mortality)	>2000 mg/kg (No mortality)
Ethylenediaminetetraacetic acid disodium salt	N/Av	2000mg/kg	N/Av
N,N-Diethylbenzene-1,4-diammonium sulphate	N/Av	N/Av	N/Av
Citric acid, anhydrous	N/Av	3000 mg/kg	> 2000 mg/kg (No mortality)
Potassium Phosphate Monobasic	>83mg/L	>2000 mg/kg	>2000 mg/kg

#### Other important toxicological hazards

- : None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

- : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See data for individual ingredient ecotoxicity data.

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### Ecotoxicity data:

<u>Ingredients</u>	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Sodium phosphate, dibasic	7558-79-4	>100 mg/L (Rainbow trout)	N/Av	None.
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	320 mg/L (Guppy)	>25.7 mg/L (Zebra fish)	None.
N,N-Diethylbenzene-1,4-diammonium sulphate	6283-63-2	N/Av	N/Av	
Citric acid, anhydrous	77-92-9	1516 mg/L (Bluegill sunfish)	N/Av	None.
Potassium Phosphate Monobasic	7778-77-0	N/Av	N/Av	None.

<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Sodium phosphate, dibasic	7558-79-4	>100 mg/L (Daphnia magna)	N/Av	None.
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	140mg/L (Daphnia magna)	25 mg/L (Daphnia magna)	None.
N,N-Diethylbenzene-1,4-diammonium sulphate	6283-63-2	N/Av	N/Av	
Citric acid, anhydrous	77-92-9	1535 mg/L/24hr (Daphnia magna)	N/Av	None.
Potassium Phosphate Monobasic	7778-77-0	N/Av	N/Av	None.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Sodium phosphate, dibasic	7558-79-4	>100mg/L (Green algae)	>100mg/L (Green algae)	
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	>60 mg/L (Green algae)	48.4 mg/L (Green algae)	None.
N,N-Diethylbenzene-1,4-diammonium sulphate	6283-63-2	N/Av	N/Av	
Citric acid, anhydrous	77-92-9	> 18 000 mg/L/96hr (Green algae)	N/Av	None.
Potassium Phosphate Monobasic	7778-77-0	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.

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<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Potassium Phosphate Monobasic (CAS 7778-77-0)	N/Av	N/Av
Ethylenediaminetetraacetic acid disodium salt (CAS 6381-92-6)	N/Av	
Citric acid, anhydrous (CAS 77-92-9)	- 1.72	3 (estimated)

**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** : Handle waste according to recommendations in Section 7.

**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	None.	Not regulated.	not regulated	none	
<b>TDG Additional information</b>	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
<b>49CFR/DOT Additional information</b>	None.				

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

**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:



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<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
Sodium phosphate, dibasic	7558-79-4	Yes	5000 lb/ 2270 kg	N/Av	No	N/Av
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	NL	N/Av	N/Av	No	N/Av
N,N-Diethylbenzene-1,4-diammonium sulphate	6283-63-2	NL	N/Av	N/Av	No	NS
Citric acid, anhydrous	77-92-9	Yes	None.	None.	No	N/Av
Potassium Phosphate Monobasic	7778-77-0	Yes	N/Av	N/Av	No	N/Av

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None. 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
Sodium phosphate, dibasic	7558-79-4	No	N/Av	Yes	Yes	No	Yes	Yes	No
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	No	N/Av	No	No	No	No	No	No
N,N-Diethylbenzene-1,4-diammonium sulphate	6283-63-2	No	N/Av	No	No	No	No	No	No
Citric acid, anhydrous	77-92-9	No	N/Av	No	No	No	No	No	No
Potassium Phosphate Monobasic	7778-77-0	No	N/Av	No	No	No	No	No	No

### Canadian Information:

WHMIS Classification: See section 2

### International Information:

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

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<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>
Sodium phosphate, dibasic	7558-79-4	231-448-7	Present	Present	(1)-497	KE-12344	Present	HSR003172
Ethylenediaminetetraacetic acid disodium salt	6381-92-6	N/Av	Present	Present	(2)-1265	Not listed	Present	HSR003376
N,N-Diethylbenzene-1,4-diammonium sulphate	6283-63-2	228-500-6	Present	Present	(3)-243		Present	HSR004912
Citric acid, anhydrous	77-92-9	201-069-1	Present	Present	(2)-1318	KE-20831	Present	HSR003138
Potassium Phosphate Monobasic	7778-77-0	231-913-4	Present	Present	(1)-452	KE-28622	Present	HSR003211

### SECTION 16. OTHER INFORMATION

**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
AICS: Australian Inventory of Chemical Substances  
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  
DEA: Drug Enforcement Agency  
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  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
IMDG: International Maritime Dangerous Goods  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
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

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**References** : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.2. International Agency for Research on Cancer Monographs, searched 2019.3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).4. Safety Data Sheets from manufacturer.5. US EPA Title III List of Lists - June 2019 version.6. California Proposition 65 List - September 2019 version.7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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

: 07/13/2016

**Reviewed Date SDS (dd/mm/yyyy)**

: 01/11/2019

**Revision No.**

: 2

**Revision Information**

: All sections modified.

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

<p><b><u>Prepared for:</u></b>          Lowry &amp; Associates, Div. of Chem-Aquascience, Inc.          5-1151 Gorham Street          Newmarket, ON L3Y 8Y1  <a href="http://www.lowryassociates.ca">www.lowryassociates.ca</a></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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