

## Section 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** Coulter DxH Cell Lyse

**Part number** 628018, 628019

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product use** For In Vitro Diagnostic Use. See product literature for details.

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Beckman Coulter, Inc.  
250 S. Kraemer Blvd  
Brea, CA 92821, U.S.A.  
Tel: 800-854-3633

#### Supplier

CANADA  
Beckman Coulter Canada LP  
7075 Financial Drive  
Mississauga, ON L5N 6V8  
Canada  
1-800-463-7828

UNITED KINGDOM  
Beckman Coulter (UK) Ltd.  
Amersham Place  
Little Chalfont  
Buckinghamshire  
United Kingdom, HP7 9NA  
01494 441181

AUSTRALIA  
Beckman Coulter Australia Pty Ltd  
23-27 Chaplin Drive  
Lane Cove NSW 2066  
Australia  
ABN 81 002 011 672  
24 Hour emergency contact phone  
number:  
1800 060 881

SWITZERLAND  
Beckman Coulter Eurocenter SA  
22, rue Juste-Olivier, Case Postale  
1044,  
CH-1260 Nyon 1, Switzerland.  
Telephone: +41 (0)22 365 36 11  
Monday through Friday, 9:00 am to  
7:00pm)

NEW ZEALAND  
Beckman Coulter NZ  
Unit J, 33 Walmsley Road, Otahuhu,  
Auckland 1062, New Zealand  
Hours available: 08:30 - 17:00

Beckman Coulter Ireland Inc.  
Lismeehan  
O'Callaghan's Mills  
Co. Clare  
Ireland  
Tel: 353 (0)65 6831100

ICELAND / ÍSLAND  
Beckman Coulter AB  
Ekbacksvägen 28  
168 69 Bromma  
Sweden  
Phone No.: +46 80564 85 900  
Hours available: 08.00-16.30

MALTA  
DX Distributor:  
Cherubino Ltd  
DELFI Building, Sliema Road, Gzira,  
GZR 1637  
Telephone: +356 21343270  
Hours available: 08:30 – 17:00

## Section 1 Identification of the substance/mixture and of the company/undertaking (Continued)

**e-mail address** SDSNT@beckman.com

### 1.4 Emergency telephone number

**Telephone number (24H)** Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887

### Distributor and emergency phone no.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

UNITED STATES - Emergency Phone (24h): Chemtrec (800) 424-9300, International (001) 703-527-3887

CANADA - Poison Centre: 1-844-764-7669; Centre antipoison du Québec: 1-800-463-5060

UNITED KINGDOM - For UK and Scotland: Emergency Call 999

IRELAND - National Poisons Information Centre Phone No.: Members of Public: +353 (01) 809 2166 (8:00 am to 10:00 pm 7 days a week); Healthcare Professionals: +353 (01) 809 2566 (24 hour service)

AUSTRALIA - 24 Hour emergency contact phone number: 1800 060 881

NEW ZEALAND - 24 Hour emergency number: 0800 446 109

## Section 2 Hazards identification

### 2.1 Classification of the substance or mixture

**Product description** Mixture  
Colorless; Liquid; Odorless

### Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

### Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Skin Irritation Category 3  
Aquatic Hazard Acute, Category 3

### 2.2 Label elements

#### According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS Hazardous ingredients

Tetradecyltrimethylammonium bromide  
Dodecyltrimethylammonium chloride

#### Pictogram

None

#### Signal word

WARNING

#### Hazard statements

H316 Causes mild skin irritation.  
H402 Harmful to aquatic life.

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## Section 2 Hazards identification (Continued)

### Precautionary statements

#### Prevention

P273 Avoid release to the environment.

#### Response

P332+P313 If skin irritation occurs: Get medical advice/attention.

#### Storage

None

#### Disposal

P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

1.4% of product contains ingredients of unknown hazards to the aquatic environment.

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

## Section 3 Composition and information on ingredients

### 3.2 Mixtures

Hazardous ingredients:		Hazard classification of pure ingredients		
Chemical name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Dodecyltrimethylammonium chloride CAS # 112-00-5 EINECS # 203-927-0 Index # Not available	1 - 5	Aquatic Acute 1, H400 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315	Aquatic Acute 1, H400 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315	
Isopropyl Alcohol CAS # 67-63-0 EINECS # 200-661-7 Index # 603-117-00-0	< 3	Eye Irrit. 2, H319 Flam. Liq. 2, H225 STOT SE 3, H336	Eye Irrit. 2, H319 Flam. Liq. 2, H225 STOT SE 3, H336	3, 8
Tetradecyltrimethylammonium bromide CAS # 1119-97-7 EINECS # 214-291-9 Index # Not available	< 3	Aquatic Acute 1, H400 Eye Dam. 1, H318 Skin Corr. 1C, H314	Aquatic Acute 1, H400 Eye Dam. 1, H318 Skin Corr. 1C, H314	

3 - Health hazard

8 - Present at concentration below the cut-off limits.

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for description of hazard class and hazard statements

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### Section 4 First aid measures

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#### 4.1 Description of first aid measures

<b>Inhalation</b>	If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration by trained personnel and obtain medical attention immediately.
<b>Eye contact</b>	If product enters eyes, rinse eyes gently with water as a precaution.
<b>Skin contact</b>	In case of skin contact, rinse with plenty of water. Remove contaminated clothing and shoes. If pain or irritation occurs, obtain medical advice/attention.
<b>Ingestion</b>	If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain medical attention immediately.

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

Causes mild skin irritation.  
See Section 11 Toxicological Information for more detailed health information.

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

No further relevant information available. Refer to Section 4.1.

### Section 5 Firefighting measures

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**5.1 Extinguishing media** In case of fire use carbon dioxide (CO<sub>2</sub>), dry chemical, water spray or foam.  
For large fires use extinguishing media suitable for surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture Special fire and explosion hazards

No special hazards determined.

#### Hazardous combustion products

No combustion products posing significant hazards are expected from this product (an aqueous solution).

#### 5.3 Advice for firefighters

**Protective equipment** Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

**Additional information** No further relevant information available.

### Section 6 Accidental release measures

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

**Personal precautions** Observe general safety guidelines for protection; avoid eye and skin contact.  
Wear protective gloves, protective clothing and eye/face protection.

**6.2 Environmental precautions** Contain spill to prevent migration.  
Do not allow the undiluted product to enter sewers/surface or ground water.  
Dispose of contents/container in accordance with local regulations

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## Section 6 Accidental release measures (Continued)

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

**Spill and leak procedures** Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

6.4 Reference to other sections Refer sections 8 and 13.

## Section 7 Handling and storage

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7.1 Precautions for safe handling Use good laboratory procedures; avoid eye and skin contact.

### 7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 40°C , as directed on the product label.

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 Specific end uses No further relevant information available.

## Section 8 Exposure controls and personal protection

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### 8.1 Control parameters

#### Exposure limits

##### US OSHA

Isopropyl Alcohol  
CAS # 67-63-0 400 ppm TWA; 980 mg/m<sup>3</sup> TWA

##### ACGIH

Isopropyl Alcohol  
CAS # 67-63-0 400 ppm STEL; 200 ppm TWA

##### ACGIH Biological Exposure Indices (BEI)

Isopropyl Alcohol  
CAS # 67-63-0 40 mg/L medium: urine time: end of shift at end of workweek parameter: Acetone (background, nonspecific)

##### DFG MAK

Isopropyl Alcohol  
CAS # 67-63-0 400 ppm Peak; 1000 mg/m<sup>3</sup> Peak; 200 ppm TWA MAK; 500 mg/m<sup>3</sup> TWA MAK

##### Ireland

Isopropyl Alcohol  
CAS # 67-63-0 200 ppm TWA; 400 ppm STEL; Potential for cutaneous absorption

##### IOELVs

None established

##### NIOSH

Isopropyl Alcohol  
CAS # 67-63-0 2000 ppm IDLH (10% LEL); 500 ppm STEL; 1225 mg/m<sup>3</sup> STEL; 400 ppm TWA; 980 mg/m<sup>3</sup> TWA

##### China

Isopropyl Alcohol  
CAS # 67-63-0 700 mg/m<sup>3</sup> STEL; 350 mg/m<sup>3</sup> TWA

## Section 8 Exposure controls and personal protection (Continued)

### Croatia

Isopropyl Alcohol  
CAS # 67-63-0 400 ppm TWA [GVI]; 999 mg/m<sup>3</sup> TWA [GVI]; 500 ppm STEL [KGVI]; 1250 mg/m<sup>3</sup> STEL [KGVI]

### Japan

None established

### Sweden (AFS 2015:7 and amendments)

Isopropyl Alcohol  
CAS # 67-63-0 150 ppm TLV NGV; 350 mg/m<sup>3</sup> TLV NGV; 250 ppm Indicative STEL Vägledande KGV; 600 mg/m<sup>3</sup> Indicative STEL Vägledande KGV

### Turkey

None established

## 8.2 Exposure controls

### Engineering controls

No special engineering controls are required. Use with good general ventilation.

### Eye protection

Safety glasses or chemical goggles should be worn to prevent eye contact.

Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

### Skin protection

Wear impervious gloves such as Nitrile or equivalent and protective clothing. Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN 14605:2005+A1:2009 or appropriate government standards.

### Respiratory protection

Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Density and/or relative density</b>	≈ 1
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	9.80 - 10.20	<b>Organic</b>	Not determined
<b>Freezing point</b>	Not determined	<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Boiling point or initial boiling point and boiling range</b>	Not determined	<b>Auto-ignition temp.</b>	Not applicable
<b>Flash point</b>	Not applicable	<b>Decomposition temperature</b>	Not determined
<b>Flammability</b>	Not applicable	<b>Vapor pressure</b>	Not determined
		<b>Kinematic viscosity</b>	Not determined

## Section 9 Physical and chemical properties (Continued)

**Lower and upper explosion limit** Not applicable

**Relative vapor density** Not determined

**Particle characteristics** Not applicable

### 9.2 Other information

#### Information with regard to physical hazard classes

No further relevant information available.

#### Other safety characteristics

No further relevant information available.

## Section 10 Stability and reactivity

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability** The product is stable in accordance with recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No further relevant information available.

### 10.4 Conditions to avoid

Avoid exposure to heat and direct sunlight.

To maintain product performance keep away from strong acids, strong bases, strong oxidizers.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

## Section 11 Toxicological information

### 11.1 Information on hazard classes

#### Toxicity data for hazardous ingredients

Dodecyltrimethylammonium chloride  
CAS # 112-00-5 Oral LD50 Rat 490 mg/kg (test substance administered as 24.7% aqueous solution)(CHEMVIEW)

Isopropyl Alcohol  
CAS # 67-63-0 Dermal LD50 Rabbit 4059 mg/kg (JAPAN\_GHS); Inhalation LC50 Rat >10000 ppm 6 h (no deaths occurred)(vapor)(ECHA\_API); Oral LD50 Rat 1870 mg/kg (JAPAN\_GHS)

Tetradecyltrimethylammonium bromide  
CAS # 1119-97-7 Oral LD50 Rat 1000 mg/kg (NZ\_CCID)

**Primary routes of exposure** Eye contact, ingestion, inhalation, and skin contact.

**Acute toxicity** Not classified based on available data.

**Skin corrosion/irritation** Causes mild skin irritation.

**Serious eye damage/irritation** Not classified based on available data.

## Section 11 Toxicological information (Continued)

<b>Respiratory or skin sensitisation</b>	Not classified based on available data.
<b>Germ cell mutagenicity</b>	Not classified based on available data.
<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.
<b>Reproductive toxicity</b>	Not classified based on available data.
<b>Specific target organ toxicity (STOT) – single exposure</b>	Not classified based on available data.
<b>Specific target organ toxicity (STOT) – repeated exposure</b>	Not classified based on available data.
<b>Aspiration hazard</b>	Not classified based on available data.
<b>11.2 Information on other hazards</b>	
<b>Endocrine disrupting properties</b>	This product does not have substance(s) of endocrine disrupting properties for health according to REACH Article 57(f).
<b>Other information</b>	No further relevant information available.

## Section 12 Ecological information

<b>12.1 Toxicity</b>	
<b>Fresh water species</b>	
Isopropyl Alcohol CAS # 67-63-0	LC50 96 h Pimephales promelas: 9640 mg/L [flow-through] (IUCLID); LC50 96 h Pimephales promelas: 11130 mg/L [static] (IUCLID); LC50 96 h Lepomis macrochirus: >1400000 µg/L (EPA)
<b>Microtox/organisms</b>	No information available.
<b>Water flea</b>	
Isopropyl Alcohol CAS # 67-63-0	EC50 48 h Daphnia magna: 13299 mg/L (IUCLID)
<b>Fresh water algae</b>	
Isopropyl Alcohol CAS # 67-63-0	EC50 96 h Desmodesmus subspicatus: >1000 mg/L (IUCLID); EC50 72 h Desmodesmus subspicatus: >1000 mg/L (IUCLID)
<b>12.2 Persistence and degradability</b>	Not determined for the product.
<b>12.3 Bioaccumulative potential</b>	Not determined for the product.
<b>12.4 Mobility in soil</b>	Not determined for the product.
<b>12.5 Results of PBT and vPvB assessment</b>	Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

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## Section 12 Ecological information (Continued)

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### 12.6 Endocrine disrupting properties

This product does not have substance(s) of endocrine disrupting properties for environment according to REACH Article 57(f).

### 12.7 Other adverse effects

Harmful to aquatic life.

This product is classified as environmentally hazardous. Do not allow undiluted product to enter sewer/surface or ground water. Dispose of contents/container to in accordance with local/national regulations

## Section 13 Disposal considerations

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### 13.1 Waste treatment methods

#### Product waste disposal

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

#### Additional information

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

## Section 14 Transport information

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Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

**14.1 UN/ID number:** Not regulated for transportation

**14.2 UN proper shipping name:** Not regulated for transportation

**14.3 Transport hazard class(es):** Not regulated for transportation

**14.4 Packing group:** Not regulated for transportation

**14.5 Environmental hazards:** Not regulated for transportation

**14.6 Special precautions for user:** None

**14.7 Maritime transport in bulk according to IMO instruments:** Not applicable

## Section 15 Regulatory information

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### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### US Federal and State Regulations

#### **SARA 313 (Section 313, Title III reporting requirements)**

CAS # 67-63-0

Isopropyl Alcohol

1.0% de minimis concentration

#### **CERCLA (The Comprehensive Environmental Response, Compensation, and Liability Act) 40 CFR 302.4**

No ingredients listed.

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## Section 15 Regulatory information (Continued)

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### California Proposition 65

#### Chemical which is known to the State of California to cause cancer

No ingredients listed.

#### Chemical which is known to the State of California to cause development toxicity

No ingredients listed.

#### Chemical which is known to the State of California to cause male reproductive toxicity

No ingredients listed.

#### Chemical which is known to the State of California to cause female reproductive toxicity

No ingredients listed.

### Massachusetts Right To Know (RTK) List

CAS # 67-63-0      Isopropyl Alcohol

### New Jersey Dept. of Health Right To Know (RTK) List

CAS # 67-63-0      Isopropyl Alcohol

### Pennsylvania Right To Know (RTK) List

CAS # 67-63-0      Isopropyl Alcohol

### EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

### **Water Hazard Class (Germany)**

WGK 2, water endangering

### **Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - Substances Subject to Suspicious Transactions Reporting**

No ingredients listed.

### **Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - Restricted Explosives Precursors**

No ingredients listed.

### **REACH 1907/2006 EC - Candidate List of Substances of Very High Concern (SVHC)**

No ingredients listed.

### **REACH 1907/2006 EC - Annex XVII – Restrictions on Certain Dangerous Substances**

CAS # 67-63-0      Isopropyl Alcohol      Entry No.: 75

### **REACH 1907/2006 EC - Annex XIV - list of substances subject to authorisation**

No ingredients listed.

Refer to Section 3

### UK Regulations

## Section 15 Regulatory information (Continued)

### UK REACH Regulation (as Amended) - List of substances subject to authorisation

Refer to Section 3

#### Canada

This product is exempt from WHMIS label and SDS requirements.

#### China

#### Catalog of Hazardous Chemicals - Hazardous Chemicals

CAS # 67-63-0      Isopropyl Alcohol

#### Inventory - China - Inventory of Existing Chemical Substances (IECSC)

All ingredients are listed or exempted.

#### Turkey

#### Türkiye-REACH - KKDIK Regulation - Annex 17 – Restrictions

No ingredients listed.

#### International

#### UN/FAO/Rotterdam Convention - Chemicals Subject to Prior Informed Consent (PIC)

No ingredients listed.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

*Some hazardous ingredients listed in Section 15 are below the cutoff limits of 0.1% for carcinogen, mutagen and reproductive toxin and 1% for other health hazards required for reporting in Section 3.*

## Section 16 Other information

<b>Beckman Coulter safety rating</b>	<b>Flammability: 0</b> <b>Health: 1</b> <b>Reactivity with water: 0</b> <b>Physical contact: 1</b>	Code 0=None 1=Slight 2=Caution 3=Severe
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**Revision changes**      Update supplier addresses in Section 1.3

#### Document version and issue/revision date

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## Section 16 Other information (Continued)

**Hazard Classification Procedure** This mixture was classified using the calculation method for human health and environmental hazards. Physical hazards were determined based on the specification.

**Description of hazard class and hazard statements from Section 3**

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1  
Eye Dam. 1 - Eye Damage Category 1  
Eye Irrit. 2 - Eye Irritation Category 2  
Flam. Liq. 2 - Flammable Liquids, Category 2  
Skin Corr. 1C - Skin Corrosion Category 1C  
Skin Irrit. 2 - Skin Irritation Category 2  
STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3  
STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3  
H225 - Highly flammable liquid and vapour.  
H314 - Causes severe skin burns and eye damage.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H400 - Very toxic to aquatic life.

**Abbreviations and acronyms**

ACGIH - American Conference of Governmental Industrial Hygienists (ACGIH)  
ADR and RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road and Rail  
CLP - Classification, Labeling and Packaging  
DFGMAK - Republic Germany's maximum exposure limit  
EC50 - Concentration of a substance in an environmental medium expected to produce a certain effect in 50% of test organisms  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals (GHS)  
HCS - Hazard Communication Standard  
IARC - International Agency for Research on Cancer  
IATA DGR - International Air Transport Association Dangerous Goods Regulation  
ICAO - International Civil Aviation Organization  
IDLH - Immediately Dangerous to Life or Health  
IMDG - International Maritime Dangerous Goods  
IMO - International Maritime Organization  
IOELVs - European Unions' Indicative Occupational Exposure Limit Values  
LC50 - Concentration of a substance in water causing death (50% of the tested population) to aquatic life  
LD50 - Lethal Dose 50%  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration

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### Section 16 Other information (Continued)

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PBT - Persistent Bioaccumulative and Toxic substances  
PEL - Permissible Exposure Limit  
SARA - Superfund Amendments and Reauthorization Act  
STEL – Short Term Exposure Limit  
STLV - Short Term Limit Value  
STV - Short Term Value  
TDG - Canadian Transportation of Dangerous Goods Regulations  
TLV - Threshold Limit Value  
TWA – Time Weighted Average  
UN GHS - United Nations Globally Harmonized System  
US DOT - United States Department of Transportation  
US OSHA - United States Occupational Safety and Health Administration  
vPvB - very Persistent and very Bioaccumulative substances  
WHMIS - Workplace Hazardous Material Information System

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