

Document ID: B36872-75 Version AJ Revision Date (year/month/day) 2025/06/13 Last Revision Date (year/month/day) 2024/11/01

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

1.1 Product identifier

Product name DxH 500 Series Control

Part number B36872

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 Ireland Inc. Lismeehan, O'Callaghan's Mills,

Co. Clare, Ireland

Tel: +(353) (0) 65 683 1100

Supplier Beckman Coulter, Inc. CANADA

250 S. Kraemer Blvd Beckman Coulter Canada LP

Brea, CA 92821, U.S.A. 7075 Financial Drive
Tel: 800-854-3633 Mississauga, ON L5N 6V8

Canada

1-800-463-7828

UNITED KINGDOM AUSTRALIA

Beckman Coulter (UK) Ltd. Beckman Coulter Australia Pty Ltd

Amersham Place 23-27 Chaplin Drive Little Chalfont Lane Cove NSW 2066

Buckinghamshire Australia

United Kingdom, HP7 9NA ABN 81 002 011 672

01494 441181 24 Hour emergency contact phone

number: 1800 060 881

1044.

7:00pm)

22, rue Juste-Olivier, Case Postale

Monday through Friday, 9:00 am to

CH-1260 Nyon 1, Switzerland. Telephone: +41 (0)22 365 36 11

NEW ZEALAND

Beckman Coulter NZ

SWITZERLAND

Beckman Coulter Eurocenter SA

Unit J, 33 Walmsley Road, Otahuhu, Auckland 1062, New Zealand

Hours available: 08:30 - 17:00

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

DELF Building, Sliema Road, Gzira,

GZR 1637

Telephone: +356 21343270 Hours available: 08:30 – 17:00



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

Beckman Coulter Ireland Inc.

Lismeehan

O'Callaghan's Mills

Co. Clare Ireland

Tel: 353 (0)65 6831100

e-mail address SDSNT@beckman.com

Further information Contact:

Customer support Unit, Beckman Coulter Ireland Inc.

Technical Service Department Tel. +001-800-854-3633 (PST)

E-mail CC_Support.ie@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

Tel +353 (0)65 683 1170; 08:00 - 16:30 hrs Mon-Thur, 08:00 - 15:30 hrs Fri

(GMT) Tel +001-800-223-0130 (PST)

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

Red; Liquid; Odorless

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

Skin Irritation Category 2, H315 Eye Irritation Category 2, H319

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

Skin Irritation Category 3



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Section 2 Hazards identification (Continued)

2.2 Label elements

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

Potassium Hydroxide

Pictogram



Signal word

WARNING

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

Prevention

P280 Wear protective gloves, protective clothing and eye/face protection.

Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before use.

Storage None Disposal None

Product label will display most significant precautionary statements.

2.3 Other hazards

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

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	



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Section 3 Composition and information on ingredients (Continued)

Potassium Hydroxide CAS # 1310-58-3 EINECS # 215-181-3 Index # 019-002-00-8	< 1	Acute Tox. Oral 4, H302 Eye Dam. 1, H318 Skin Corr. 1A, H314 Specific Concentration Limit (SCL) Skin Irrit. 2 H315 >= 0.5% - < 2% Skin Corr. 1A H314 >= 5% Skin Corr. 1B H314 >= 2% - < 5% Eye Irrit. 2 H319 >= 0.5% - < 2% Acute Toxicity Estimates (ATE) ATE Oral = 500 mg/kg	Acute Tox. Oral 4, H302 Aquatic Acute 3, H402 Eye Dam. 1, H318 Skin Corr. 1A, H314	REST
Sodium Azide CAS # 26628-22-8 EINECS # 247-852-1 Index # 011-004-00-7	< 0.1	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 EUH032 Acute Toxicity Estimates (ATE) ATE Oral = 27 mg/kg	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	2, 8

^{2 -} Substance with Community workplace exposure limits

REST - Subject to Restriction as per Annex XVII of REACH Regulation (EC) No 1907/2006

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

Section 4 First aid measures

4.1 Description of first aid measures

Inhalation 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.

Eye contact If product enters eyes, rinse eyes gently with water for 15 minutes or longer,

making sure that the eyelid is held open. If pain or irritation occurs, obtain medical

advice/attention.

Skin contact In case of skin contact, rinse with plenty of water. Remove contaminated clothing

and shoes. If pain or irritation occurs, obtain medical advice/attention.

Ingestion 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 skin irritation.

Causes serious eye 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.

^{8 -} Present at concentration below the cut-off limits.



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Section 5 Firefighting measures

5.1 Extinguishing media In case of fire use carbon dioxide (CO2), 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.

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

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautionsThis product contains material of human and animal origin and should be handled

as though capable of transmitting infectious diseases. Observe general safety

guidelines for protection during clean up procedures.

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

6.3 Methods and material for containment and cleaning up

Spill and leak procedures As a precautionary measure, treat spilled material with a 1:10 bleach/water

solution. Absorb liquid and place in container suitable for disposal. Avoid generation of aerosols during clean up. Comply with applicable waste disposal

regulations.

6.4 Reference to other sections Refer sections 8 and 13.

Section 7 Handling and storage

7.1 Precautions for safe handling This product should be handled as though capable of transmitting infectious

diseases. Universal precautions should be followed when using this product.

7.2 Conditions for safe storage, including any incompatibilities

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.



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Section 8 Exposure controls and personal protection

8.1 Control parameters

Exposure limits

US OSHA None established

ACGIH

Potassium Hydroxide

CAS # 1310-58-3

2 mg/m3 Ceiling

Sodium Azide CAS # 26628-22-8 0.29 mg/m3 Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)

ACGIH Biological Exposure Indices (BEI)

None established

DFG MAK

Sodium Azide CAS # 26628-22-8 0.4 mg/m3 Peak (inhalable fraction); 0.2 mg/m3 TWA MAK (inhalable fraction)

Ireland

Potassium Hydroxide

CAS # 1310-58-3

2 mg/m3 STEL

Sodium Azide CAS # 26628-22-8 0.1 mg/m3 TWA; 0.3 mg/m3 STEL; Potential for cutaneous absorption

IOELVs

Sodium Azide CAS # 26628-22-8 Possibility of significant uptake through the skin; 0.1 mg/m3 TWA; 0.3 mg/m3 STEL

NIOSH None established

China

Potassium Hydroxide

CAS # 1310-58-3

2 mg/m3 Ceiling MAC

Sodium Azide CAS # 26628-22-8 0.3 mg/m3 Ceiling MAC

Croatia

Potassium Hydroxide

CAS # 1310-58-3

2 mg/m3 STEL [KGVI]

Sodium Azide CAS # 26628-22-8 Skin Notation; 0.1 mg/m3 TWA [GVI]; 0.3 mg/m3 STEL [KGVI]

Japan None established

Sweden (AFS 2015:7 and amendments)

Potassium Hydroxide

1 mg/m3 TLV NGV; 2 mg/m3 Binding STEL Bindande KGV

CAS # 1310-58-3

0.1 mg/m3 TLV NGV; 0.3 mg/m3 Binding STEL Bindande KGV

Sodium Azide CAS # 26628-22-8

Turkey

Sodium Azide CAS # 26628-22-8 0.3 mg/m3 STEL; Skin notation; 0.1 mg/m3 TWA



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Section 8 Exposure controls and personal protection (Continued)

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.

Wear impervious gloves such as Nitrile or equivalent and protective clothing. Skin protection

Refer to U.S. OSHA 29 CFR 1910.138, European Standard EN 374, EN

14605:2005+A1:2009 or appropriate government standards.

Under normal conditions, the use of this product should not require respiratory Respiratory protection

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	l chemical	properties
-----	-------------	----------	--------------	------------	------------

Density and/or relative ≈ 1.06 Physical state Liquid

density

Color Red Solubility

Odor Odorless Water Miscible

pН Not determined **Organic** Not determined

Not determined Not determined Freezing point **Partition coefficient**

n-octanol/water (log

Auto-ignition temp.

value)

Boiling point or initial

boiling point and boiling

range

Not applicable Not determined Flash point **Decomposition**

temperature

Flammability Not applicable Not determined Vapor pressure

> Kinematic viscosity Not determined

Not applicable

Lower and upper

explosion limit

Not applicable

Not determined

Not determined Relative vapor density **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.

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Section 10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stabilityThe product is stable in accordance with recommended storage conditions.

10.3 Possibility of hazardous reactions

Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing

drains may result in the build up of shock sensitive compounds.

10.4 Conditions to avoid Avoid contact with incompatible materials.

Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials Metals and metallic compounds

10.6 Hazardous decomposition products

When stored as labeled, no known hazardous decomposition products are formed

during the shelf-life of this product.

Section 11 Toxicological information

11.1 Information on hazard classes

Toxicity data for hazardous ingredients

Potassium Hydroxide Ora

CAS # 1310-58-3

Oral LD50 Rat 284 mg/kg (JAPAN_GHS)

Sodium Azide CAS # 26628-22-8 Dermal LD50 Rabbit 20 mg/kg (NLM_HSDB); Inhalation LC50 Rat 0.054 - 0.52

mg/L 4 h (dust)(ECHA_API); Oral LD50 Rat 27 mg/kg (NZ_CCID)

Primary routes of exposure

Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of

aerosolized material.

Acute toxicity Not classified based on available data.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin

sensitisation

Not classified based on available data.

Germ cell mutagenicity Not classified based on available data.

Carcinogenicity No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP,

OSHA or 1272/2008 EC regulation.

Reproductive toxicity Not classified based on available data.

Specific target organ toxicity (STOT) - single exposure

Not classified based on available data.

Specific target organ toxicity (STOT) – repeated exposure

Not classified based on available data.



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Section 11 Toxicological information (Continued)

Aspiration hazard

Not classified based on available data.

11.2 Information on other hazards

Endocrine disrupting properties

This product does not have substance(s) of endocrine disrupting properties for

health according to REACH Article 57(f).

Other information

This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

Section 12 Ecological information

12.1 Toxicity

Fresh water species

Sodium Azide LC50 96 h Oncorhynchus mykiss: 0.8 mg/L; LC50 96 h Lepomis macrochirus: CAS # 26628-22-8

0.7 mg/L; LC50 96 h Pimephales promelas: 5.46 mg/L [flow-through]

No information available. Microtox/organisms No information available. Water flea Fresh water algae No information available.

12.2 Persistence and degradability Not determined for the product.

12.3 Bioaccumulative potential Not determined for the product. 12.4 Mobility in soil Not determined for the product.

Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

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

This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

Section 13 Disposal considerations

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.

Dispose of as potentially biohazardous waste and 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 and approved waste-disposal company for information.

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76). To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of



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undiluted reagent. Sodium azide disposal must be in accordance with appropriate

local regulations.

Additional information

Suggested European waste catalogue 18 01 03* - wastes whose collection and disposal is subject to special requirements in order to prevent infection. Dispose in accordance with national, state and local waste regulations

Section 14 Transport information

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

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 # 26628-22-8 Sodium Azide

1.0% de minimis concentration

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

CAS # 1310-58-3 Potassium Hydroxide

CAS # 26628-22-8 Sodium Azide

California Proposition 65

▲ WARNING This product can expose you to chemical which is known to the State of California to cause cancer and/or reproductive harm. For more information go to www.P65Warnings.ca.gov

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

CAS # 66-81-9 Cycloheximide

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



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Section 15 Regulatory information (Continued)

No ingredients listed.

Massachusetts Right To Know (RTK) List

CAS # 1310-58-3 Potassium Hydroxide

CAS # 26628-22-8 Sodium Azide CAS # 66-81-9 Cycloheximide

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

CAS # 1310-58-3 Potassium Hydroxide

CAS # 26628-22-8 Sodium Azide CAS # 66-81-9 Cycloheximide

Pennsylvania Right To Know (RTK) List

CAS # 1310-58-3 Potassium Hydroxide

CAS # 26628-22-8 Sodium Azide CAS # 66-81-9 Cycloheximide

EU Regulations

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

Water Hazard Class (Germany)

WGK 1, low 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 # 1310-58-3 Potassium Hydroxide Entry No.: 75

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

No ingredients listed.

Refer to Section 3

UK Regulations

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.



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Section 15 Regulatory information (Continued)

China

Catalog of Hazardous Chemicals - Hazardous Chemicals

CAS # 1310-58-3 Potassium Hydroxide

CAS # 26628-22-8 Sodium Azide
CAS # 66-81-9 Cycloheximide

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

All ingredients are listed or exempted.

Turkey

Türkiye-REACH - KKDIK Regulation - Annex 17 - Restrictions

Not applicable.

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

Beckman Coulter safety rating	Flammability: 0 Health: 2 Reactivity with water: 0 Physical contact: 2	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

Aquatic Acute 3 - Aquatic Hazard Acute, Category 3

Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2

Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4

Eye Dam. 1 - Eye Damage Category 1

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

Skin Corr. 1A - Skin Corrosion Category 1A

EUH032 - Contact with acids liberates very toxic gas.

H300 - Fatal if swallowed.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H400 - Very toxic to aquatic life.

H402 - Harmful to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

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

PBT - Persistent Bioaccumulative and Toxic substances



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Section 16 Other information (Continued)

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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