

SAFETY DATA SHEET

Document ID: 81911-75 Version AP
Revision Date (year/month/day) 2024/11/01
Last Revision Date (year/month/day) 2023/12/22

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

1.1 Product identifier

Product name CONTRAD® 70
Part number 81911
Series name Access, DxFLEX, CytoFLEX Platform

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

Distributed by 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.
Oakley Court
Kingsmead Business Park, London
Road
High Wycombe
United Kingdom HP11 1JU
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

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

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

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
White; Liquid; Mild odor

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

Skin Corrosion Category 1, H314
Eye Damage Category 1, H318

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

Skin Corrosion Category 1
Eye Damage Category 1

2.2 Label elements

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

Hazardous ingredients

Potassium Hydroxide

Pictogram



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Section 2 Hazards identification (Continued)

Signal word

DANGER

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention

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

Response

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.

P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

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

Product label will display most significant precautionary statements.

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
Potassium Hydroxide CAS # 1310-58-3 EINECS # 215-181-3 Index # 019-002-00-8	1 - 5	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

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Section 3 Composition and information on ingredients (Continued)

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. Obtain medical advice/attention.

Skin contact

In case of skin contact, rinse with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. 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

Corrosive. May cause burns to eyes, skin and respiratory tract.

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

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

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Section 6 Accidental release measures (Continued)

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

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 15 to 30°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

8.1 Control parameters	
Exposure limits	
US OSHA	None established
ACGIH	
Potassium Hydroxide CAS # 1310-58-3	2 mg/m3 Ceiling
ACGIH Biological Exposure Indices (BEI)	None established
DFG MAK	None established
Ireland	
Potassium Hydroxide CAS # 1310-58-3	2 mg/m3 STEL
IOELVs	
	None established
NIOSH	None established
China	
Potassium Hydroxide CAS # 1310-58-3	2 mg/m3 Ceiling MAC

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Section 8 Exposure controls and personal protection (Continued)

Croatia

Potassium Hydroxide
CAS # 1310-58-3 2 mg/m3 STEL [KGV!]

Japan

None established

Sweden (AFS 2015:7 and amendments)

Potassium Hydroxide
CAS # 1310-58-3 1 mg/m3 TLV NGV; 2 mg/m3 Binding STEL Bindande 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

Physical state	Liquid	Density and/or relative density	1.06 @20°C
Color	White	Solubility	
Odor	Mild odor	Water	Miscible
pH	13	Organic	Not determined
Freezing point	Not determined	Partition coefficient n-octanol/water (log value)	Not determined
Boiling point or initial boiling point and boiling range	> 212°C (413.6°F)	Auto-ignition temp.	Not applicable
Flash point	Not applicable	Decomposition temperature	Not determined
Flammability	Not applicable	Vapor pressure	Not determined
		Kinematic viscosity	Not determined

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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 To maintain product performance keep away from strong acids, strong bases, strong oxidizers.
Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials No further relevant information available.

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
CAS # 1310-58-3 Oral LD50 Rat 284 mg/kg (JAPAN_GHS)

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

Acute toxicity Not classified based on available data.

Skin corrosion/irritation Contact may cause severe skin burns.

Serious eye damage/irritation Contact may cause serious eye damage.

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.

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Section 11 Toxicological information (Continued)

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.

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

No further relevant information available.

Section 12 Ecological information

12.1 Toxicity**Fresh water species**

No information available.

Microtox/organisms

No information available.

Water flea

No information available.

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.**12.5 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

No further relevant information available.

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.

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Package disposal

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Additional information

Suggested European waste catalogue 18 01 06* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

Section 14 Transport information

	Shipping information	IATA	IMDG	US DOT	European ADR	Canadian TDG
14.1	UN/ID number	1814	1814	1814	1814	PIN - 1814
14.2	UN proper shipping name	Potassium Hydroxide Solution				
14.3	Transport hazard class(es)	8 Corrosives	8 Corrosive substances	8 Corrosive material	8 Corrosive substances	8 Corrosives
	Subsidiary risk	None	None	None	None	None
	Classification code	Not applicable	Not applicable	Not applicable	C5	Not applicable
14.4	Packing group	II	II	II	II	II
	Special provisions	A3, A803	None	Not applicable	None	None
	Additional information					
	IATA ERG code	8L	Not applicable	Not applicable	Not applicable	Not applicable
	EmS	Not applicable	F-A, S-B	Not applicable	Not applicable	Not applicable
	NAERG code	Not applicable	Not applicable	154	Not applicable	154
14.5	Environmental hazards					
	Marine pollutant	Not applicable	No	Not applicable	Not applicable	Not applicable
14.6	Special precautions for user	Warning: Corrosive substances.				
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)

No ingredients listed.

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Section 15 Regulatory information (Continued)

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

CAS # 1310-58-3 Potassium Hydroxide

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 # 1310-58-3 Potassium Hydroxide

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

CAS # 1310-58-3 Potassium Hydroxide

Pennsylvania Right To Know (RTK) List

CAS # 1310-58-3 Potassium Hydroxide

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

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Section 15 Regulatory information (Continued)

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

No ingredients listed.

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.

China

Catalog of Hazardous Chemicals - Hazardous Chemicals

CAS # 1310-58-3 Potassium Hydroxide

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

All ingredients are listed or exempted.

Turkey

Turkey-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

Beckman Coulter safety rating	Flammability: 0 Health: 3 Reactivity with water: 0 Physical contact: 3	Code 0=None 1=Slight 2=Caution 3=Severe
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Revision changes Updated sections 3, 8

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 3 - Aquatic Hazard Acute, Category 3

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

Eye Dam. 1 - Eye Damage Category 1

Skin Corr. 1A - Skin Corrosion Category 1A

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H402 - Harmful 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

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

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Section 16 Other information (Continued)

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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