SAFETY DATA SHEET

Document ID: 175474-75 Version AN
Revision Date (year/month/day) 2023/10/04
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Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Vi-Cell Focus Control

Part number 175474

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

Product use For laboratory use only. 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

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CH-1260 Nyon 1, Switzerland.
Telephone: +41 (0)22 365 36 11
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Beckman Coulter (UK) Ltd.
Oakley Court
Kingsmead Business Park, London Road
High Wycombe
United Kingdom HP11 1JU
01494 441181

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.

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)

Skin Sensitization Category 1
Aquatic Hazard Long term, Category 3

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Section 2 Hazards identification (Continued)

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

Aquatic Hazard Acute, Category 3

Aquatic Hazard Long term, Category 3

2.2 Label elements

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

Hazardous ingredients

reaction mass of: 5-chloro-2-methyl-4-isothiazolin -3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1)

Pictogram



Signal word

WARNING

Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing vapours.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing and eye/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before use.
P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements.

REACH Authorisation number

REACH/23/15/35, REACH/23/15/36, REACH/23/15/37, REACH/23/15/38, REACH/23/15/39, REACH/23/15/40, REACH/23/15/41, REACH/23/15/42

UKREACH/22/03/4

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

This product has substance(s) of endocrine disrupting properties for health or environment according to REACH Article 57(f) at levels of 0.1% or higher.

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**

Section 3 Composition and information on ingredients (Continued)

Polyoxyethylated Octyl Phenol CAS # 9002-93-1 EINECS # Not available Index # Not available	< 0.2	Acute Tox. Oral 4, H302 Aquatic Longterm 2, H411 Eye Dam. 1, H318 Acute Toxicity Estimates (ATE) ATE Oral = 1800 mg/kg	Acute Tox. Oral 4, H302 Aquatic Longterm 2, H411 Eye Dam. 1, H318	8, EDe, EUAUTH, SVHC, UKAUTH
reaction mass of: 5-chloro-2-methyl-4-isothiazolin -3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1) CAS # 55965-84-9 EINECS # Not available Index # 613-167-00-5	< 0.05	Acute Tox. Dermal 2, H310 Acute Tox. Inhal. 2, H330 Acute Tox. Oral 3, H301 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 Eye Dam. 1, H318 M-factor Acute=100 M-factor Chronic=100 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Specific Concentration Limit (SCL) Skin Irrit. 2 H315 >= 0.06% - < 0.6% Eye Dam. 1 H318 >= 0.6% Skin Corr. 1C H314 >= 0.6% Eye Irrit. 2 H319 >= 0.06% - < 0.6% Skin Sens. 1A H317 >= 0.0015% Acute Toxicity Estimates (ATE) ATE Dermal = 87.12 mg/kg ATE Inhalation - Vapors = 0.5 mg/L ATE Oral = 53 mg/kg	Acute Tox. Dermal 2, H310 Acute Tox. Inhal. 2, H330 Acute Tox. Oral 3, H301 Aquatic Acute 1, H400 Aquatic Longterm 1, H410 Eye Dam. 1, H318 Skin Corr. 1C, H314 Skin Sens. 1A, H317	

8 - Present at concentration below the cut-off limits.
EDe - Endocrine disrupting properties (environment)
EUAUTH - Subject to Authorisation as per EU - REACH (1907/2006) Annex XIV
SVHC - Substance of very high concern
UKAUTH - Subject to Authorisation as per UK - REACH Annex XIV

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 as a precaution.

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.

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Section 4 First aid measures (Continued)

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.
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 (CO_2), 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

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

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.

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Section 7 Handling and storage (Continued)

7.2 Conditions for safe storage, including any incompatibilities

Store at 2 to 8°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	None established
DFG MAK	None established
Ireland	None established
IOELVs	None established
NIOSH	None established
Japan	None established

Sweden (AFS 2015:7 and amendments)

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 @20°C

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Section 9 Physical and chemical properties (Continued)

	Color	Colorless	**Solubility**	
	Odor	Odorless	**Water**	Miscible
	pH	≈ 7	**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	Not determined	**Auto-ignition temp.**	Not applicable
	Flash point	Not applicable	**Decomposition temperature**	Not determined
	Flammability	Not applicable	**Vapor pressure**	Not determined
			Kinematic viscosity	Not determined
	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

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

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Section 11 Toxicological information

11.1 Information on hazard classes

Toxicity data for hazardous ingredients

Polyoxyethylated Octyl Phenol CAS # 9002-93-1	Oral LD50 Rat 1800 mg/kg (NZ_CCID)
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC# 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC# 220-239-6](3:1) CAS # 55965-84-9	Dermal LD50 Rabbit 87.12 mg/kg (ECHA_API); Oral LD50 Rat 53 mg/kg (NLM_CIP)

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

Acute toxicity Not classified based on available data.

Skin corrosion/irritation Not classified based on available data.

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

Respiratory or skin sensitisation May cause an allergic skin reaction.

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.

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) at levels of 0.1% or higher.

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.

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Section 12 Ecological information (Continued)

	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 has substance(s) of endocrine disrupting properties for environment according to REACH Article 57(f) at levels of 0.1% or higher.
12.7	**Other adverse effects**	Harmful to aquatic life with long lasting effects. 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

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

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

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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 # 107-21-1	Ethylene Glycol	1.0% de minimis concentration

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

CAS # 107-21-1	Ethylene Glycol

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 # 107-21-1	Ethylene Glycol

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 # 107-21-1	Ethylene Glycol
CAS # 10377-60-3	Magnesium Nitrate

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

CAS # 107-21-1	Ethylene Glycol
CAS # 10377-60-3	Magnesium Nitrate

Pennsylvania Right To Know (RTK) List

CAS # 107-21-1	Ethylene Glycol
CAS # 10377-60-3	Magnesium Nitrate

EU Regulations

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

Water Hazard Class (Germany)

WGK 1, low water endangering

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

Refer to Section 3

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Section 15 Regulatory information (Continued)

EU REACH Authorisation number

REACH/23/15/35, REACH/23/15/36, REACH/23/15/37, REACH/23/15/38, REACH/23/15/39, REACH/23/15/40, REACH/23/15/41, REACH/23/15/42

Under Article 66, downstream users shall notify the European Chemical Agency (ECHA) within 90 days of receiving this product. Use link below for instructions:

www.beckmancoulter.com/reachauthorisation

Polyoxyethylated Octyl Phenol (CAS# 9002-93-1)

Downstream users with existing collection and adequate treatment of wastewater containing substance(s) listed above shall continue to maintain these arrangements. Notification requirements detailed below do not apply. Those discharging wastewater containing NPNeO and OPNeO substances must submit a notification to the following bodies, in accordance with the legislation transposing Directives 91/271/EEC and 2000/60/EC, as well as with national provisions of the Member States where the uses take place:

(a) the competent authorities responsible under Directive 2000/60/EC;

(b) the competent authorities responsible under Directive 91/271/EEC;

(c) the wastewater treatment plant connected to the sewage system into which they are discharging that wastewater.

The notification shall include the annual volume of wastewater discharge and the amount of NPNeO and OPNeO substances listed above released. Upon request, downstream user shall make a copy of the notification available to the competent authority of the Member State for REACH where Authorisation use takes place.

Regulation (EU) 2019/1148 on the marketing and use of explosives

No ingredients listed.

UK Regulations

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

Refer to Section 3

UK REACH Authorisation number

UKREACH/22/03/4

Under Article 66, you are required to notify the Health and Safety Executive (HSE) within 90 days of receiving this product. Use link below for instructions:

www.beckmancoulter.com/reachauthorisation

Canada

This product does not meet WHMIS criteria for hazardous materials.

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.

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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

Revision changes

Updated Section 2.
Updated Section 3.
Updated Section 15.
Updated Section 16.

Document version and issue/revision date

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Description of hazard class and hazard statements from Section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Acute Tox. Dermal 2 - Acute Toxicity Dermal, Category 2
Acute Tox. Inhal. 2 - Acute Toxicity Inhalation, Category 2
Acute Tox. Oral 3 - Acute Toxicity Oral, Category 3
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
Aquatic Longterm 2 - Aquatic Hazard Long term, Category 2
Skin Corr. 1C - Skin Corrosion Category 1C
Skin Sens. 1A - Skin Sensitization Category 1A
H301 - Toxic if swallowed.
H302 - Harmful if swallowed.
H310 - Fatal in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H330 - Fatal if inhaled.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.
H411 - Toxic to aquatic life with long lasting effects.

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Section 16 Other information (Continued)

Abbreviations and acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany's maximum exposure limit
GHS - Globally Harmonized System
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
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions' Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations
TLV - Threshold Limit Value
TWA – Time weighted Average
STEL – Short Term Exposure Limit
IDLH - Immediately Dangerous To Life or Health
STLV - Short Term Limit Value
STV - Short Term Value
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances
LD50 - Lethal Dose, 50%

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