

## Kit SDS Cover Sheet

Document ID: 476836-75: Version AL  
Revision Date (year/month/day) 2025/07/13  
Last Revision Date (year/month/day) 2024/10/05

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### Product information

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<b>Product name</b>	Creatine Kinase Reagent
<b>Part number</b>	476836
<b>Series name</b>	SYNCHRON Systems

### Components

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<b>Description</b>	Creatine Kinase Reagent (Compartment A) Creatine Kinase Reagent (Compartment B) CK (A-Reagent)
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### 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.



## SAFETY DATA SHEET

Document ID: 476836-75 Version AL  
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### Section 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**Product name** Creatine Kinase Reagent (Compartment A)

**Part number** Component of P/N 476836

**Series name** SYNCHRON Systems

#### 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)

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

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

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ICELAND / ÍSLAND  
Beckman Coulter AB  
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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  
SDSNT@beckman.com

#### e-mail address

#### 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
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## Section 2 Hazards identification (Continued)

Colorless to slightly yellow; Liquid; Odorless

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

Skin Irritation Category 2, H315  
Eye Irritation Category 2, H319  
Toxic to Reproductive Category 1B, H360

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

Skin Irritation Category 2  
Toxic to Reproductive Category 1  
Eye Irritation Category 2

## 2.2 Label elements

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

#### Hazardous ingredients

Thioglycerol  
Imidazole

#### Pictogram



#### Signal word

DANGER

#### Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H360 May damage fertility or the unborn child.

#### Precautionary statements

##### Prevention

P201 Obtain special instructions before use.  
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.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
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

P405 Store locked up.

##### Disposal

P501 Dispose of contents/container in accordance with local/national regulations  
Product label will display most significant precautionary statements.

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## Section 2 Hazards identification (Continued)

### 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
Thioglycerol CAS # 96-27-5 EINECS # 202-495-0 Index # Not available	1- 5	Acute Tox. Dermal 3, H311 Acute Tox. Oral 4, H302 Eye Irrit. 2A, H319 STOT SE 3, H335 Skin Irrit. 2, H315  Acute Toxicity Estimates (ATE) ATE Dermal = 673 mg/kg ATE Oral = 500 mg/kg	Acute Tox. Dermal 3, H311 Acute Tox. Oral 4, H302 Eye Irrit. 2A, H319 STOT SE 3, H335 Skin Irrit. 2, H315	
Imidazole CAS # 288-32-4 EINECS # 206-019-2 Index # 613-319-00-0	<1	Acute Tox. Oral 4, H302 Repr. 1B, H360 Skin Corr. 1C, H314  Acute Toxicity Estimates (ATE) ATE Oral = 500 mg/kg	Acute Tox. Oral 4, H302 Repr. 1B, H360 Skin Corr. 1C, H314	REST

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 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)

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

May cause skin and eyes irritation.  
May damage fertility or the unborn child.  
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 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

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**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)

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### 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.

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## Section 8 Exposure controls and personal protection

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### 8.1 Control parameters

#### Exposure limits

**US OSHA** None established

**ACGIH** None established

#### ACGIH Biological Exposure Indices (BEI)

None established

**DFG MAK** None established

**Ireland** None established

#### IOELVs

None established

**NIOSH** None established

**China** None established

**Croatia** None established

**Japan** None established

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

None established

**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>	≈1.007 @22-26°C
<b>Color</b>	Colorless to slightly yellow	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	6.35 - 6.45 @23.5-24.5°C	<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
<b>Lower and upper explosion limit</b>	Not applicable		
<b>Relative vapor density</b>	Not determined		
<b>Particle characteristics</b>	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

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical stability</b>	The product is stable in accordance with recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No further relevant information available.
<b>10.4 Conditions to avoid</b>	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
<b>10.5 Incompatible materials</b>	No further relevant information available.

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## Section 10 Stability and reactivity (Continued)

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### 10.6 Hazardous decomposition products

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

## Section 11 Toxicological information

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### 11.1 Information on hazard classes

#### Toxicity data for hazardous ingredients

Thioglycerol  
CAS # 96-27-5                      Dermal LD50 Rabbit 673 mg/kg (ECHA\_API)

Imidazole  
CAS # 288-32-4                      Oral LD50 Rat 220 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**        May cause skin irritation.

**Serious eye damage/irritation**    May cause 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**            May damage fertility or the unborn child.

#### **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

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### 12.1 Toxicity

**Fresh water species**              No information available.

## Section 12 Ecological information (Continued)

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<b>Microtox/organisms</b>	No information available.
<b>Water flea</b>	
Imidazole CAS # 288-32-4	EC50 48 h Daphnia magna: 341.5 mg/L (IUCLID)
<b>Fresh water algae</b>	
Imidazole CAS # 288-32-4	EC50 72 h Desmodesmus subspicatus: 130 mg/L (IUCLID); EC50 96 h Desmodesmus subspicatus: 82 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.
<b>12.6 Endocrine disrupting properties</b>	
	This product does not have substance(s) of endocrine disrupting properties for environment according to REACH Article 57(f).
<b>12.7 Other adverse effects</b>	No further relevant information available.

## Section 13 Disposal considerations

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<b>13.1 Waste treatment methods</b>	
<b>Product waste disposal</b>	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.
<b>Package disposal</b>	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.
<b>Additional information</b>	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

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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)**

No ingredients listed.

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

No ingredients listed.

#### **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**

No ingredients listed.

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

No ingredients listed.

#### **Pennsylvania Right To Know (RTK) List**

No ingredients listed.

### 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.

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## Section 15 Regulatory information (Continued)

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### **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 # 288-32-4      Imidazole      Entry No.: 30; 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.

### **China**

#### **Catalog of Hazardous Chemicals - Hazardous Chemicals**

No ingredients listed.

#### **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.*

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## Section 16 Other information

<b>Beckman Coulter safety rating</b>	<b>Flammability: 0</b> <b>Health: 3</b> <b>Reactivity with water: 0</b> <b>Physical contact: 3</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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### 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

Acute Tox. Dermal 3 - Acute Toxicity Dermal, Category 3  
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4  
Eye Irrit. 2A - Eye Irritation Category 2A  
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  
Repr. 1B - Toxic to Reproductive Category 1B  
H302 - Harmful if swallowed.  
H311 - Toxic in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H360 - May damage fertility or the unborn child.

### 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

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## Section 16 Other information (Continued)

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

#### 1.1 Product identifier

**Product name** Creatine Kinase Reagent (Compartment B)

**Part number** Component of P/N 476836

**Series name** SYNCHRON Systems

#### 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  
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 Mississauga, ON L5N 6V8  
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 1-800-463-7828

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 01494 441181

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 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)

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

NEW ZEALAND  
Beckman Coulter NZ  
Unit J, 33 Walmsley Road, Otahuhu,  
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Tel: 353 (0)65 6831100

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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  
SDSNT@beckman.com

#### e-mail address

#### 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

## Section 2 Hazards identification (Continued)

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

Toxic to Reproductive Category 1

### 2.2 Label elements

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

##### Hazardous ingredients

Imidazole

Tris(hydroxymethyl)- aminomethane

##### Pictogram



##### Signal word

DANGER

##### Hazard statements

H316 Causes mild skin irritation.

H360 May damage fertility or the unborn child.

##### Precautionary statements

##### Prevention

P201 Obtain special instructions before use.

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

##### Response

P308+P313 IF exposed or concerned: Get medical advice/attention.

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

##### 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

This product contains material(s) of animal origin. Observe general safety guidelines for protection when handling this product.

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

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## Section 3 Composition and information on ingredients (Continued)

Chemical name	% by wt.	EU 1272/2008 CLP/GHS	GHS	Note
Tris(hydroxymethyl)- aminomethane CAS # 77-86-1 EINECS # 201-064-4 Index # Not available	1 - 5	Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315	Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315	
Imidazole CAS # 288-32-4 EINECS # 206-019-2 Index # 613-319-00-0	< 1	Acute Tox. Oral 4, H302 Repr. 1B, H360 Skin Corr. 1C, H314  Acute Toxicity Estimates (ATE) ATE Oral = 500 mg/kg	Acute Tox. Oral 4, H302 Repr. 1B, H360 Skin Corr. 1C, H314	

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

<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

May damage fertility or the unborn child.  
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

<b>5.1 Extinguishing media</b>	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.
<b>5.2 Special hazards arising from the substance or mixture Special fire and explosion hazards</b>	No special hazards determined.

---

## Section 5 Firefighting measures (Continued)

---

### 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

This product contains a material of animal origin. 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.

### 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

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

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

None established

## SAFETY DATA SHEET

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

<b>DFG MAK</b>	None established
<b>Ireland</b>	None established
<b>IOELVs</b>	
	None established
<b>NIOSH</b>	None established
<b>China</b>	None established
<b>Croatia</b>	
Glycerol CAS # 56-81-5	10 mg/m <sup>3</sup> TWA [GVI]
<b>Japan</b>	None established
<b>Sweden (AFS 2015:7 and amendments)</b>	
	None established
<b>Turkey</b>	None established
<b>8.2 Exposure controls</b>	
<b>Engineering controls</b>	No special engineering controls are required. Use with good general ventilation.
<b>Eye protection</b>	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.
<b>Skin protection</b>	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.
<b>Respiratory protection</b>	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>	≈1.125 @22-26°C
<b>Color</b>	Colorless	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	6.4 - 6.6	<b>Organic</b>	Not determined
<b>Freezing point</b>	Not determined	<b>Partition coefficient n-octanol/water (log value)</b>	Not determined

## Section 9 Physical and chemical properties (Continued)

<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
<b>Lower and upper explosion limit</b>	Not applicable		
<b>Relative vapor density</b>	Not determined		
<b>Particle characteristics</b>	Not applicable		
<b>9.2 Other information</b>			
<b>Information with regard to physical hazard classes</b>	No further relevant information available.		
<b>Other safety characteristics</b>	No further relevant information available.		

## Section 10 Stability and reactivity

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical stability</b>	The product is stable in accordance with recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No further relevant information available.
<b>10.4 Conditions to avoid</b>	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
<b>10.5 Incompatible materials</b>	No further relevant information available.
<b>10.6 Hazardous decomposition products</b>	No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

## Section 11 Toxicological information

<b>11.1 Information on hazard classes</b>	
<b>Toxicity data for hazardous ingredients</b>	
Imidazole CAS # 288-32-4	Oral LD50 Rat 220 mg/kg (NLM_CIP)
Tris(hydroxymethyl)-aminomethane CAS # 77-86-1	Dermal LD50 Rat >5000 mg/kg (no deaths occurred)(ECHA); Oral LD50 Rat 5900 mg/kg (NLM_CIP)

## Section 11 Toxicological information (Continued)

<b>Primary routes of exposure</b>	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.
<b>Acute toxicity</b>	Not classified based on available data.
<b>Skin corrosion/irritation</b>	May cause skin irritation.
<b>Serious eye damage/irritation</b>	Not classified based on available data.
<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>	May damage fertility or the unborn child.
<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>	This product contains material(s) of animal origin. Observe general safety guidelines for protection when handling this product.

## Section 12 Ecological information

<b>12.1 Toxicity</b>	
<b>Fresh water species</b>	No information available.
<b>Microtox/organisms</b>	No information available.
<b>Water flea</b>	
Imidazole CAS # 288-32-4	EC50 48 h Daphnia magna: 341.5 mg/L (IUCLID)
<b>Fresh water algae</b>	
Imidazole CAS # 288-32-4	EC50 72 h Desmodesmus subspicatus: 130 mg/L (IUCLID); EC50 96 h Desmodesmus subspicatus: 82 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.

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## Section 12 Ecological information (Continued)

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- 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. 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 approved waste-disposal company for information.
- 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

---

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)**

No ingredients listed.

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

No ingredients listed.

##### **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 # 56-81-5      Glycerol

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

CAS # 56-81-5      Glycerol

##### **Pennsylvania Right To Know (RTK) List**

CAS # 56-81-5      Glycerol

##### **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.

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## Section 15 Regulatory information (Continued)

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### 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 # 288-32-4      Imidazole      Entry No.: 30; 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.

### China

#### Catalog of Hazardous Chemicals - Hazardous Chemicals

No ingredients listed.

#### 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.*

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### Section 16 Other information

<b>Beckman Coulter safety rating</b>	<b>Flammability: 0</b> <b>Health: 3</b> <b>Reactivity with water: 0</b> <b>Physical contact: 3</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

Revision Date (year/month/day) 2025/07/13  
Last Revision Date (year/month/day) 2024/10/05  
Document ID: 476836-75  
Version: AL

#### 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

Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4  
Eye Irrit. 2 - Eye Irritation 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  
Repr. 1B - Toxic to Reproductive Category 1B  
H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H360 - May damage fertility or the unborn child.

#### 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

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## Section 16 Other information (Continued)

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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  
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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For further information, please contact your local Beckman Coulter, Inc. representative.

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

#### 1.1 Product identifier

**Product name** CK (A-Reagent)  
**Part number** Component of P/N 476836  
**Series name** SYNCHRON Systems

#### 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)

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

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  
SDSNT@beckman.com

### e-mail address

### 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

---

## Section 2 Hazards identification (Continued)

---

Colorless to slightly yellow; 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

Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

#### 2.2 Label elements

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

#### 2.3 Other hazards

Not classified as hazardous per EC 1272/2008 (CLP/GHS), US-OSHA and GHS

This product contains material(s) of animal origin. Observe general safety guidelines for protection when handling this product.

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: None

---

## 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 water as a precaution.

#### 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

No adverse symptoms or effects have been identified.

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

No specific medical attention or treatment required.

---

## Section 5 Firefighting measures

---

### 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

---

## Section 5 Firefighting measures (Continued)

---

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

This product contains a material of animal origin. 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.

### 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

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

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

### ACGIH Biological Exposure Indices (BEI)

None established

### DFG MAK

None established

### Ireland

None established

### IOELVs

None established

### NIOSH

None established

### China

None established

### Croatia

Glycerol  
CAS # 56-81-5

10 mg/m<sup>3</sup> TWA [GVI]

### Japan

None established

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

None established

### 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 protective clothing and impervious gloves, as appropriate.

### Respiratory protection

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

## 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>	≈1.136 @22-26°C
<b>Color</b>	Colorless to slightly yellow	<b>Solubility</b>	
<b>Odor</b>	Odorless	<b>Water</b>	Miscible
<b>pH</b>	8.4 - 8.6 @21-27°C	<b>Organic</b>	Not determined
<b>Freezing point</b>	Not determined	<b>Partition coefficient n-octanol/water (log value)</b>	Not determined

## Section 9 Physical and chemical properties (Continued)

<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
<b>Lower and upper explosion limit</b>	Not applicable		
<b>Relative vapor density</b>	Not determined		
<b>Particle characteristics</b>	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

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical stability</b>	The product is stable in accordance with recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No further relevant information available.
<b>10.4 Conditions to avoid</b>	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
<b>10.5 Incompatible materials</b>	No further relevant information available.
<b>10.6 Hazardous decomposition products</b>	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

Not applicable

## Section 11 Toxicological information (Continued)

<b>Primary routes of exposure</b>	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.
<b>Acute toxicity</b>	Not classified based on available data.
<b>Skin corrosion/irritation</b>	Not classified based on available data.
<b>Serious eye damage/irritation</b>	Not classified based on available data.
<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>	This product contains material(s) of animal origin. Observe general safety guidelines for protection when handling this product.

## Section 12 Ecological information

<b>12.1 Toxicity</b>	
<b>Fresh water species</b>	No information available.
<b>Microtox/organisms</b>	No information available.
<b>Water flea</b>	No information available.
<b>Fresh water algae</b>	No information available.
<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.

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## Section 12 Ecological information (Continued)

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### 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

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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.

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 approved waste-disposal company for information.

#### 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 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

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## Section 15 Regulatory information (Continued)

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

No ingredients listed.

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

No ingredients listed.

### **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 # 56-81-5      Glycerol

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

CAS # 56-81-5      Glycerol

### **Pennsylvania Right To Know (RTK) List**

CAS # 56-81-5      Glycerol

### **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.

## Section 15 Regulatory information (Continued)

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

No ingredients listed.

### 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.

### China

#### Catalog of Hazardous Chemicals - Hazardous Chemicals

No ingredients listed.

#### 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

Revision Date (year/month/day) 2025/07/13

Last Revision Date (year/month/day) 2024/10/05

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## Section 16 Other information (Continued)

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### Hazard Classification Procedure

Document ID: 476836-75

Version: AL

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

### 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

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

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## Section 16 Other information (Continued)

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vPvB - very Persistent and very Bioaccumulative substances

WHMIS - Workplace Hazardous Material Information System

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