

Kit SDS Cover Sheet

Document ID: OSR6130-75: Version 07
 Revision Date (year/month/day) 2020/07/28
 Last Revision Date (year/month/day) 2017/11/29

Product Information

Product Name	Lipase
Part Number	OSR6130, OSR6230

Components

Description	Lipase Buffer - R1B Lipase Substrate - R1L Lipase - R2 Lipase calibrator
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Transport Information

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
UN/ID Number	3077	3077	3077	3077	3077
Shipping Name	Environmentally hazardous substance, solid, n.o.s (Nonylphenol, branched, ethoxylated)				
Hazard Class	9 Miscellaneous Dangerous Goods	9 Miscellaneous dangerous substances and articles	9 Miscellaneous hazardous material	9 Miscellaneous dangerous substances and articles	9 Environmentally Hazardous Substances
Subsidiary Risk	None	None	None	None	None
Classification Code	Not applicable	Not applicable	Not applicable	M7	Not applicable
Packing Group	III	III	III	III	III
Special Provisions	A97, A158, A197	274, 335, 969	8, 146, 335	335	16
Additional information					
IATA ERG Code	9L	Not applicable	Not applicable	Not applicable	Not applicable
EmS	Not applicable	F-A, S-F	Not applicable	Not applicable	Not applicable
NAERG Code	Not applicable	Not applicable	171	Not applicable	171
Environmental Hazards					
Marine Pollutant	Not applicable	No	Not applicable	Not applicable	Not applicable

Special Precautions for user

The lyophilized product contains < 10 g of an environmentally hazardous solid that is not regulated for transport as per special provisions 335-DOT, A158-IATA, 335-IMDG, 335-ADR and 16-TDG. The product after reconstitution is not hazardous.



SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
 Revision Date (year/month/day) 2020/07/28
 Last Revision Date (year/month/day) 2017/11/29

Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name Lipase Buffer - R1B
Part Number Component of P/N OSR6130, OSR6230

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

EC REP Address

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

e-mail address

SDSNT@beckman.com
 Further information Contact:
 Customer support Unit, Beckman Coulter Ireland Inc.
 Technical Service Department Tel. +001-800-854-3633 (PST)
 E-mail: Techsupportuk@beckman.com

1.4 Emergency telephone number

Telephone number (24H) Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887
 Tel +353 (0)65 683 1170; 08:00 - 16:30 hrs Mon-Thur, 08:00 - 15:30 hrs Fri (GMT) Tel +001-800-223-0130 (PST)

Distributor and Emergency Phone No.

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

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description In vitro diagnostic reagent.
 Colorless; Clear; Liquid; Mild

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

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 2 Hazards Identification (Continued)

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

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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

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
Sodium Azide CAS # 26628-22-8 EINECS # 247-852-1 Index # 011-004-00-7	< 0.1	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	2, 8

2 - Substance with Community workplace exposure limits

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

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for description of hazard class and hazard statements

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.

Section 4 First Aid Measures (Continued)

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting 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 (an aqueous solution).

5.3 Advice for fire fighters

Protective Equipment

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

5.4 Additional information

No further relevant information available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

No special precautions are necessary. Use good laboratory procedures.

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 No special precautions are necessary; use good laboratory procedures.

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

Sodium Azide
CAS # 26628-22-8

0.29 mg/m³ Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)

DFG MAK

Sodium Azide
CAS # 26628-22-8

0.4 mg/m³ Peak (inhalable fraction); 0.2 mg/m³ TWA MAK (inhalable fraction)

Ireland

Sodium Azide
CAS # 26628-22-8

0.1 mg/m³ TWA; 0.3 mg/m³ STEL; Potential for cutaneous absorption

IOELVs

Sodium Azide
CAS # 26628-22-8

Possibility of significant uptake through the skin; 0.3 mg/m³ STEL; 0.1 mg/m³ TWA

NIOSH

None established

Japan

None established

Sweden (AFS 2015:7 and amendments)

Sodium Azide
CAS # 26628-22-8

0.1 mg/m³ TLV; 0.3 mg/m³ Binding STEL

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.

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Specific Gravity (Water=1.0)	≈1.04
Color	Colorless	Solubility	
Transparency	Clear	Water	Miscible
Odor	Mild	Organic	Not determined
pH	6.8 @25°C	Partition coefficient: n-octanol/water	Not determined
Freezing Point	Not determined	Auto-ignition Temp.	Not determined
Boiling Point	Not determined	Decomposition Temperature	Not determined
Flash Point	Not applicable	Percent Volatiles	Not applicable
Evaporation Rate	Not applicable	Vapor Pressure	Not determined
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammability Limits	Not determined	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not applicable
Odor Threshold	Not applicable		

9.2 Other Information 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	Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.
10.4 Conditions to Avoid	Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.
10.5 Incompatible materials	Metals and metallic compounds
10.6 Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

Section 11 Toxicological Information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

Sodium Azide
CAS # 26628-22-8

Dermal LD50 Rabbit 20 mg/kg; Oral LD50 Rat 27 mg/kg

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/eye irritation Not classified based on available data.

Respiratory/skin sensitization 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.

Germ cell mutagenicity Not classified based on available data.

Reproductive Toxicity Not classified based on available data.

Specific target organ toxicity – single exposure
Not classified based on available data.

Specific target organ toxicity – repeated exposure
Not classified based on available data.

Aspiration hazard Not classified based on available data.

Other Information No further relevant information available.

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species

Sodium Azide
CAS # 26628-22-8

96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Lepomis macrochirus:
0.7 mg/L; 96 h LC50 Pimephales promelas: 5.46 mg/L [flow-through]

Microtox 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 Bioaccumulation Not determined for the product.

12.4 Mobility in soil Not determined for the product.

Section 12 Ecological Information (Continued)

12.5 Results of PBT and vPvB assessment

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

12.6 Other Adverse Effects

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

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product Waste Disposal

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

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

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.

13.2 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 Shipping Name: Not regulated for transportation

14.3 Hazard Class: 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 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

Section 15 Regulatory Information

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

US Federal and State Regulations

SARA 313 (Section 313, Title III reporting requirements)

CAS # 26628-22-8 Sodium Azide 1.0% de minimis concentration

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

CAS # 26628-22-8 Sodium Azide

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 # 26628-22-8 Sodium Azide

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

CAS # 26628-22-8 Sodium Azide

Pennsylvania Right To Know (RTK) List

CAS # 26628-22-8 Sodium Azide

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 authorization.

No ingredients listed.

Canada

This product is exempt from WHMIS label and SDS requirements.

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.

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 16 Other Information

Beckman Coulter Safety Rating	Flammability: 0 Health: 1 Reactivity with Water: 0 Physical Contact: 1	Code 0=None 1=Slight 2=Caution 3=Severe
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Revision Changes
Updated E-mail address in Sec. 1.3.
Removed the classification of EC Directives 1999/45/EC and 67/548/EEC from Sec. 2.1. Sec 3.2 and 15.1
Updated Section 8, 11, 15, 16.
Updated Section 12.

Document version and issue/revision date

Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29
Document ID: OSR6130-75
Version: 07

Description of hazard Class and hazard statements from Section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1
H300 - Fatal if swallowed.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

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.
UN GHS - United Nations Globally Harmonized System

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 16 Other Information (Continued)

US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances
LD50 - Lethal Dose, 50%
LC50 - Lethal Concentration, 50%

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

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SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
 Revision Date (year/month/day) 2020/07/28
 Last Revision Date (year/month/day) 2017/11/29

Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name Lipase Substrate - R1L
Part Number Component of P/N OSR6130, OSR6230

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

EC REP Address

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

e-mail address

SDSNT@beckman.com
 Further information Contact:
 Customer support Unit, Beckman Coulter Ireland Inc.
 Technical Service Department Tel. +001-800-854-3633 (PST)
 E-mail: Techsupportuk@beckman.com

1.4 Emergency telephone number

Telephone number (24H) Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887
 Tel +353 (0)65 683 1170; 08:00 - 16:30 hrs Mon-Thur, 08:00 - 15:30 hrs Fri (GMT) Tel +001-800-223-0130 (PST)

Distributor and Emergency Phone No.

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

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description In vitro diagnostic reagent.
 Whitish; Hazy; Solid; Characteristic odor

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

Eye Damage Category 1
 Aquatic Hazard Long term, Category 2

Section 2 Hazards Identification (Continued)

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

Skin Irritation Category 3
Eye Damage Category 1

2.2 Label Elements

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

Ethoxylated Nonylphenol
MES monohydrate

Pictogram



Signal Word

DANGER

Hazard Statements

H316 Causes mild skin irritation.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing and eye/face protection.
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.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/national regulations

Product label will display most significant precautionary statements. 16.9% of product contains ingredients of unknown hazards to aquatic environment.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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

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

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 3 Composition and Information on Ingredients (Continued)

Sucrose CAS # 57-50-1 EINECS # 200-334-9 Index # Not available	60 - 80	No	No	2
Ethoxylated Nonylphenol CAS # 68412-54-4 EINECS # 500-209-1 Index # Not available	1 - 5	Acute Tox. Oral 4, H302 Aquatic Longterm 2, H411 Eye Dam. 1, H318 Skin Irrit. 2, H315	Acute Tox. Oral 4, H302 Aquatic Longterm 2, H411 Eye Dam. 1, H318 Skin Irrit. 2, H315	AUTH, SVHC
MES monohydrate CAS # 145224-94-8 EINECS # Not available 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	

2 - Substance with Community workplace exposure limits
AUTH - Subject to Authorisation as per EU - REACH (1907/2006) Annex XIV
SVHC - Substance of very high concern

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

Ingestion

If product is ingested, rinse mouth with water. If irritation or discomfort occurs, obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Contact may cause serious eye damage.

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 Fire Fighting 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

Section 5 Fire Fighting Measures (Continued)

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 fire fighters

Protective Equipment

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

5.4 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 material of human and animal origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures.

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

6.2 Environmental Precautions

Contain spill to prevent migration.

Do not allow the undiluted product to enter sewers/surface or ground water.

Dispose of contents/container in accordance with local regulations

6.3 Methods and material for containment and cleaning up

Spill and Leak Procedures

If the product is solid or lyophilized form, use vacuum or carefully sweep up spilled material and place in container for suitable disposal. Avoid generating dust.

If the product is liquid form, 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.

Dispose of all waste material in accordance with local guidelines.

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

Sucrose 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
CAS # 57-50-1

ACGIH

Sucrose 10 mg/m³ TWA
CAS # 57-50-1

DFG MAK

None established

Ireland

Sucrose 10 mg/m³ TWA; 20 mg/m³ STEL
CAS # 57-50-1

IOELVs

None established

NIOSH

Sucrose 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)
CAS # 57-50-1

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	Solid	Specific Gravity (Water=1.0)	Not determined
Color	Whitish	Solubility	
Transparency	Hazy	Water	Soluble

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 9 Physical and Chemical Properties (Continued)

Odor	Characteristic odor	Organic	Not determined
pH	Not applicable	Partition coefficient: n-octanol/water	Not applicable
Melting Point	Not applicable	Auto-ignition Temp.	Not determined
Boiling Point	Not applicable	Decomposition Temperature	Not determined
Flash Point	Not applicable	Percent Volatiles	Not applicable
Evaporation Rate	Not applicable	Vapor Pressure	Not applicable
Flammability (Solid, Gas)	Not determined	Viscosity	Not applicable
Flammability Limits	Not determined	Explosive Properties	Not applicable
Vapor Density	Not applicable	Oxidizing Properties	Not applicable
Odor Threshold	Not applicable		
9.2 Other Information	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 toxicological effects

Toxicity Data for Hazardous Ingredients

Sucrose CAS # 57-50-1	Oral LD50 Rat 29700 mg/kg
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SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 11 Toxicological Information (Continued)

Primary Routes of Exposure	Common routes of entry include inhalation, ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture, contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.
Acute Toxicity	Not classified based on available data.
Skin Corrosion/Irritation	Causes mild skin irritation.
Serious eye damage/eye irritation	Contact may cause serious eye damage.
Respiratory/skin sensitization	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.
Germ cell mutagenicity	Not classified based on available data.
Reproductive Toxicity	Not classified based on available data.
Specific target organ toxicity – single exposure	Not classified based on available data.
Specific target organ toxicity – repeated exposure	Not classified based on available data.
Aspiration hazard	Not classified based on available data.
Other Information	This product contains materials of human and animal origins and should be considered as potentially capable of transmitting infectious diseases.

Section 12 Ecological Information

12.1 Ecotoxicity	
Fresh Water Species	No information available.
Microtox	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 Bioaccumulation	Not determined for the product.
12.4 Mobility in soil	Not determined for the product.

Section 12 Ecological Information (Continued)

12.5 Results of PBT and vPvB assessment

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

12.6 Other Adverse 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.

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 an 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.

13.2 Additional information

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

Section 14 Transport Information

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
14.1 UN/ID Number	3077	3077	3077	3077	PIN - 3077
14.2 Shipping Name	Environmentally hazardous substance, solid, n.o.s (Nonylphenol, branched, ethoxylated)				
14.3 Hazard Class	9 Miscellaneous Dangerous Goods	9 Miscellaneous dangerous substances and articles	9 Miscellaneous hazardous material	9 Miscellaneous dangerous substances and articles	9 Environmentally Hazardous Substances
Subsidiary Risk	None	None	None	None	None
Classification Code	Not applicable	Not applicable	Not applicable	M7	Not applicable
14.4 Packing Group	III	III	III	III	III
Special Provisions	A97, A158, A197	274, 335, 969	8, 146, 335	335	16
Additional information					
IATA ERG Code	9L	Not applicable	Not applicable	Not applicable	Not applicable

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 14 Transport Information (Continued)

Ems	Not applicable	F-A, S-F	Not applicable	Not applicable	Not applicable
NAERG Code	Not applicable	Not applicable	171	Not applicable	171
14.5 Environmental Hazards					
Marine Pollutant	Not applicable	No	Not applicable	Not applicable	Not applicable

14.6 Special Precautions for user

The lyophilized product contains < 10 g of an environmentally hazardous solid that is not regulated for transport as per special provisions 335-DOT, A158-IATA, 335-IMDG, 335-ADR and 16-TDG. The product after reconstitution is not hazardous.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture US Federal and State Regulations

SARA 313 (Section 313, Title III reporting requirements)

CAS # 68412-54-4 Ethoxylated Nonylphenol 1.0% de minimis concentration

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 # 57-50-1 Sucrose

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

Section 15 Regulatory Information (Continued)

No ingredients listed.

Pennsylvania Right To Know (RTK) List

CAS # 57-50-1 Sucrose

EU Regulations

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

Water Hazard Class (Germany)

WGK 2, water endangering

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

No ingredients listed.

Canada

This product is exempt from WHMIS label and SDS requirements.

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 E-mail address in Sec. 1.3.
 Removed the classification of EC Directives 1999/45/EC and 67/548/EEC from Sec. 2.1. Sec 3.2 and 15.1
 Updated section 2, 3, 6, 8, 11, 15, 16

Document version and issue/revision date
 Revision Date (year/month/day) 2020/07/28
 Last Revision Date (year/month/day) 2017/11/29
 Document ID: OSR6130-75
 Version: 07

Description of hazard Class and hazard statements from Section 3
 Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4
 Eye Dam. 1 - Eye Damage Category 1
 Eye Irrit. 2 - Eye Irritation Category 2
 Aquatic Longterm 2 - Aquatic Hazard Long term, Category 2
 Skin Irrit. 2 - Skin Irritation Category 2
 STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3
 H302 - Harmful if swallowed.
 H315 - Causes skin irritation.

Section 16 Other Information (Continued)

Abbreviations and Acronyms

H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H411 - Toxic to aquatic life with long lasting effects.

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.
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%

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

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SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
 Revision Date (year/month/day) 2020/07/28
 Last Revision Date (year/month/day) 2017/11/29

Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name Lipase - R2
Part Number Component of P/N OSR6130, OSR6230

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

EC REP Address

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

e-mail address

SDSNT@beckman.com
 Further information Contact:
 Customer support Unit, Beckman Coulter Ireland Inc.
 Technical Service Department Tel. +001-800-854-3633 (PST)
 E-mail: Techsupportuk@beckman.com

1.4 Emergency telephone number

Telephone number (24H) Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887
 Tel +353 (0)65 683 1170; 08:00 - 16:30 hrs Mon-Thur, 08:00 - 15:30 hrs Fri (GMT) Tel +001-800-223-0130 (PST)

Distributor and Emergency Phone No.

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

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description In vitro diagnostic reagent.
 Yellow; Clear; 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

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 2 Hazards Identification (Continued)

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

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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

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
Sodium Deoxycholate CAS # 302-95-4 EINECS # 206-132-7 Index # Not available	1 - 2	Acute Tox. Oral 4, H302	Acute Tox. Oral 4, H302	3, 8
Sodium Azide CAS # 26628-22-8 EINECS # 247-852-1 Index # 011-004-00-7	< 0.1	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	Acute Tox. Oral 2, H300 Aquatic Acute 1, H400 Aquatic Longterm 1, H410	2, 8

2 - Substance with Community workplace exposure limits

3 - Health hazard

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

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for description of hazard class and hazard statements

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.

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 4 First Aid Measures (Continued)

- 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 Fire Fighting 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 (an aqueous solution).
- 5.3 Advice for fire fighters**
Protective Equipment Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
- 5.4 Additional information** No further relevant information available.

Section 6 Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Personal Precautions No special precautions are necessary. Use good laboratory procedures.
- 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** No special precautions are necessary; use good laboratory procedures.

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

Sodium Azide
CAS # 26628-22-8

0.29 mg/m³ Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)

DFG MAK

Sodium Azide
CAS # 26628-22-8

0.4 mg/m³ Peak (inhalable fraction); 0.2 mg/m³ TWA MAK (inhalable fraction)

Ireland

Sodium Azide
CAS # 26628-22-8

0.1 mg/m³ TWA; 0.3 mg/m³ STEL; Potential for cutaneous absorption

IOELVs

Sodium Azide
CAS # 26628-22-8

Possibility of significant uptake through the skin; 0.3 mg/m³ STEL; 0.1 mg/m³ TWA

NIOSH

None established

Japan

None established

Sweden (AFS 2015:7 and amendments)

Sodium Azide
CAS # 26628-22-8

0.1 mg/m³ TLV; 0.3 mg/m³ Binding STEL

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.

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Specific Gravity (Water=1.0)	≈1.04 @20°C
Color	Yellow	Solubility	
Transparency	Clear	Water	Miscible
Odor	Odorless	Organic	Not determined
pH	8.5 - 8.9 @25°C	Partition coefficient: n-octanol/water	Not determined
Freezing Point	Not determined	Auto-ignition Temp.	Not applicable
Boiling Point	Not determined	Decomposition Temperature	Not determined
Flash Point	Not applicable	Percent Volatiles	Not applicable
Evaporation Rate	Not determined	Vapor Pressure	Not determined
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammability Limits	Not determined	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not applicable
Odor Threshold	Not applicable		

9.2 Other Information 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	Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.
10.4 Conditions to Avoid	Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.
10.5 Incompatible materials	Metals and metallic compounds
10.6 Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

Section 11 Toxicological Information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

Sodium Deoxycholate Oral LD50 Rat 1370 mg/kg
CAS # 302-95-4

Sodium Azide Dermal LD50 Rabbit 20 mg/kg; Oral LD50 Rat 27 mg/kg
CAS # 26628-22-8

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

Respiratory/skin sensitization 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.

Germ cell mutagenicity Not classified based on available data.

Reproductive Toxicity Not classified based on available data.

Specific target organ toxicity – single exposure
Not classified based on available data.

Specific target organ toxicity – repeated exposure
Not classified based on available data.

Aspiration hazard Not classified based on available data.

Other Information No further relevant information available.

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species

Sodium Azide 96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Lepomis macrochirus:
CAS # 26628-22-8 0.7 mg/L; 96 h LC50 Pimephales promelas: 5.46 mg/L [flow-through]

Microtox 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 Bioaccumulation Not determined for the product.

12.4 Mobility in soil Not determined for the product.

Section 12 Ecological Information (Continued)

12.5 Results of PBT and vPvB assessment

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

12.6 Other Adverse Effects

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

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product Waste Disposal

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

Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76).

To avoid the possible build-up of azide compounds, flush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

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.

13.2 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 Shipping Name: Not regulated for transportation

14.3 Hazard Class: 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 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

Section 15 Regulatory Information

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

US Federal and State Regulations

SARA 313 (Section 313, Title III reporting requirements)

CAS # 26628-22-8 Sodium Azide 1.0% de minimis concentration

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

CAS # 26628-22-8 Sodium Azide

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 # 26628-22-8 Sodium Azide

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

CAS # 26628-22-8 Sodium Azide

Pennsylvania Right To Know (RTK) List

CAS # 26628-22-8 Sodium Azide

EU Regulations

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

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

No ingredients listed.

Canada

This product is exempt from WHMIS label and SDS requirements.

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.

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 16 Other Information

Beckman Coulter Safety Rating	Flammability: 0 Health: 1 Reactivity with Water: 0 Physical Contact: 1	Code 0=None 1=Slight 2=Caution 3=Severe
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Revision Changes

Updated E-mail address in Sec. 1.3.
Removed the classification of EC Directives 1999/45/EC and 67/548/EEC from Sec. 2.1. Sec 3.2 and 15.1
Updated Section 8, 11, 15, 16.
Updated Section 12.

Document version and issue/revision date

Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29
Document ID: OSR6130-75
Version: 07

Description of hazard Class and hazard statements from Section 3

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1
Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4
Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1
H300 - Fatal if swallowed.
H302 - Harmful if swallowed.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

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

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 16 Other Information (Continued)

TDG - Canadian Transportation Of Dangerous Goods Regulations.

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%

LC50 - Lethal Concentration, 50%

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SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
 Revision Date (year/month/day) 2020/07/28
 Last Revision Date (year/month/day) 2017/11/29

Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name Lipase calibrator
Part Number Component of P/N OSR6130, OSR6230

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

EC REP Address

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

e-mail address

SDSNT@beckman.com
 Further information Contact:
 Customer support Unit, Beckman Coulter Ireland Inc.
 Technical Service Department Tel. +001-800-854-3633 (PST)
 E-mail: Techsupportuk@beckman.com

1.4 Emergency telephone number

Telephone number (24H) Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887
 Tel +353 (0)65 683 1170; 08:00 - 16:30 hrs Mon-Thur, 08:00 - 15:30 hrs Fri (GMT) Tel +001-800-223-0130 (PST)

Distributor and Emergency Phone No.

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

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description In vitro diagnostic reagent.
 White; Opaque; Lyophilized Powder; Characteristic odor

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

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 2 Hazards Identification (Continued)

- 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
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases.

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
Sucrose CAS # 57-50-1 EINECS # 200-334-9 Index # Not available	20 - 50	No	No	2

2 - Substance with Community workplace exposure limits

See section 8 for available Occupational exposure limits

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.

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 5 Fire Fighting Measures

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- 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 fire fighters**
Protective Equipment Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
- 5.4 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 material of human origin and should be handled as though capable of transmitting infectious diseases. Observe general safety guidelines for protection during clean up procedures.
Wear protective gloves, protective clothing and eye/face protection.
- 6.2 Environmental Precautions** Contain spill to prevent migration.
Do not allow the undiluted product to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up**
Spill and Leak Procedures If the product is solid or lyophilized form, use vacuum or carefully sweep up spilled material and place in container for suitable disposal. Avoid generating dust.
If the product is liquid form, 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.
Dispose of all waste material in accordance with local guidelines.
- 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.

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

Sucrose
CAS # 57-50-1 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

ACGIH

Sucrose
CAS # 57-50-1 10 mg/m³ TWA

DFG MAK

None established

Ireland

Sucrose
CAS # 57-50-1 10 mg/m³ TWA; 20 mg/m³ STEL

IOELVs

None established

NIOSH

Sucrose
CAS # 57-50-1 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)

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 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

Physical State	Lyophilized Powder	Specific Gravity (Water=1.0)	Not determined
Color	White	Solubility	
Transparency	Opaque	Water	Soluble
Odor	Characteristic odor	Organic	Not determined
pH	Not applicable	Partition coefficient: n-octanol/water	Not applicable
Melting Point	Not determined	Auto-ignition Temp.	Not determined
Boiling Point	Not applicable	Decomposition Temperature	Not determined
Flash Point	Not applicable	Percent Volatiles	Not applicable
Evaporation Rate	Not applicable	Vapor Pressure	Not applicable
Flammability (Solid, Gas)	Not determined	Viscosity	Not applicable
Flammability Limits	Not determined	Explosive Properties	Not applicable
Vapor Density	Not applicable	Oxidizing Properties	Not applicable
Odor Threshold	Not applicable		

9.2 Other Information 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 toxicological effects

Toxicity Data for Hazardous Ingredients

Sucrose
CAS # 57-50-1

Oral LD50 Rat 29700 mg/kg

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

Acute Toxicity Not classified based on available data.

Skin Corrosion/Irritation Not classified based on available data.

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

Respiratory/skin sensitization 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.

Germ cell mutagenicity Not classified based on available data.

Reproductive Toxicity Not classified based on available data.

Specific target organ toxicity – single exposure
Not classified based on available data.

Specific target organ toxicity – repeated exposure
Not classified based on available data.

Aspiration hazard Not classified based on available data.

Other Information This product contains material of human origin and should be considered as potentially capable of transmitting infectious diseases.

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species No information available.

Microtox 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 Bioaccumulation Not determined for the product.

12.4 Mobility in soil Not determined for the product.

Section 12 Ecological Information (Continued)

12.5 Results of PBT and vPvB assessment

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

12.6 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 an 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.

13.2 Additional information

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

Section 14 Transport Information

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

14.1 UN/ID Number: Not regulated for transportation

14.2 Shipping Name: Not regulated for transportation

14.3 Hazard Class: 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 Transport in bulk according to Annex II of MARPOL and the IBC Code: 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)

Section 15 Regulatory Information (Continued)

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 # 57-50-1 Sucrose

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

No ingredients listed.

Pennsylvania Right To Know (RTK) List

CAS # 57-50-1 Sucrose

EU Regulations

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

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

No ingredients listed.

Canada

This product is exempt from WHMIS label and SDS requirements.

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.

SAFETY DATA SHEET

Document ID: OSR6130-75 Version 07
Revision Date (year/month/day) 2020/07/28
Last Revision Date (year/month/day) 2017/11/29

Section 16 Other Information

Beckman Coulter Safety Rating	Flammability: 0 Health: 1 Reactivity with Water: 0 Physical Contact: 1	Code 0=None 1=Slight 2=Caution 3=Severe
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Revision Changes
Updated E-mail address in Sec. 1.3.
Removed the classification of EC Directives 1999/45/EC and 67/548/EEC from Sec. 2.1. Sec 3.2 and 15.1
Updated Section 2, 8, 9, 11, 15, 16.

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Document ID: OSR6130-75
Version: 07

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.
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

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

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