

SAFETY DATA SHEET

Doc. ID: 66115-75 Rev. AG Revised (year/month/day) 2015/04/15

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

1.1 Product Identifier

Product Name Gastroccult Developer

Part Number 66115

Series Name 66000 Series

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 EC REP Address

Beckman Coulter, Inc.

250 S. Kraemer Blvd

Brea, CA 92821, U.S.A.

Beckman Coulter Eurocenter S.A.

22, rue Juste-Oliver, Case Postale 1044,

CH-1260 Nyon 1, Switzerland.

Telephone +41 (0)22 365 36 11 Monday through Friday, 9:00 am to

7:00pm)

e-mail address SDSNT@beckman.com

1.4 Emergency telephone number

Telephone number (24H) Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001)

703-527-3887

Tel: 800-854-3633

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 Mixture

Colorless; Clear; Liquid; Alcohol odor

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

Flammable Liquids, Category 2
Acute Toxicity Oral, Category 4
Skin Irritation Category 2
Eye Damage Category 1

Specific Target Organ Toxicity Single Exposure Category 2

Classification according to EC Directives 1999/45/EC and 67/548/EEC

Xn;R10-20/21/22-68/20/21/22

Doc. ID: 66115-75 AG Revised (year/month/day) 2015/04/15

Section 2 Hazards Identification (Continued)

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

Flammable Liquids, Category 2 Acute Toxicity Oral, Category 4

Acute Toxicity Dermal, Category 5

Skin Irritation Category 2 Eye Damage Category 1

Specific Target Organ Toxicity Single Exposure Category 2

2.2 Label Elements

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

Hazardous Ingredients

Citric Acid

Hydrogen Peroxide

octylphenoxypoly(ethoxyethanol)

Ethanol-methanol mix

Pictogram









Signal Word

DANGER

Hazard Statements

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H313 May be harmful In contact with skin
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H371 May cause damage to organs.

Precautionary Statements

- P210 Keep away from heat, hot surfaces, and sparks. No smoking.
- P233 Keep container tightly closed.
- P240 Ground container and receiving equipment.
- P241 Use explosion-proof electrical equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharge.
- P270 Do no eat, drink or smoke when using this product.
- P280 Wear protective gloves, protective clothing and eye/face protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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

P303+P361+P353 IF ON SKIN (or hair): Rinse skin with 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+P311 If exposed or concerned: Call a doctor/physician.

P310 Immediately call a POISON CENTER or doctor/physician.



SAFETY DATA SHEET

Doc. ID: 66115-75 AG Revised (year/month/day) 2015/04/15

Section 2 Hazards Identification (Continued)

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before use.

P370+P378 In case of fire: Use water spray for extinction. P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulations Product label will display most significant precautionary statements.8.2% of product contains ingredients of unknown dermal toxicity.3.4% of product contains ingredient of unknown Oral toxicity.

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-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	
Ethanol-methanol mix CAS # 8013-52-3 EINECS # Not available Index # Not available	30-40	F;R11 Xn;R20/21/22- 68/20/21/22	Acute Tox. Dermal 4 Acute Tox. Inhal. 4 Acute Tox. Oral 4 Flam. Liq. 2 STOT SE 2 H225; H302; H312; H332; H371	Acute Tox. Dermal 4 Acute Tox. Inhal. 4 Acute Tox. Oral 4 Flam. Liq. 2 STOT SE 2 H225; H302; H312; H332; H371	
Citric Acid CAS # 77-92-9 EINECS # 201-069-1 Index # Not available	1-5	Xi;R36	Eye Irrit. 2 H319	Eye Irrit. 2 H319	3, 8
Hydrogen Peroxide CAS # 7722-84-1 EINECS # 231-765-0 Index # 008-003-00-9	1-5	O;R5-8 C;R35-20/22	Acute Tox. Inhal. 4 Acute Tox. Oral 4 Eye Dam. 1 Ox. Liq. 1 STOT SE 3 Skin Corr. 1A H271; H302; H314; H318; H332; H335	Acute Tox. Inhal. 4 Acute Tox. Oral 4 Eye Dam. 1 Ox. Liq. 1 STOT SE 3 Skin Corr. 1A H271; H302; H314; H318; H332; H335	
octylphenoxypoly(ethoxyethanol) CAS # 9036-19-5 EINECS # Not available Index # Not available	1-3	Xi;R37/38-41	Eye Dam. 1 H318	Acute Tox. Oral 5 Eye Dam. 1 H303; H318	



Revised (year/month/day) 2015/04/15

Section 3 Composition and Information on Ingredients (Continued)

- 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 hazard class, hazard statements and risk phrase description

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 immediately and obtain medical attention.

Eye Contact If product enters eyes, wash eyes gently under running water for 15 minutes or

longer, making sure that the eyelids are held open and obtain medical attention

immediately.

Skin Contact In case of skin contact, flush with copious amounts of water for at least 15

minutes. If pain or irritation occur, obtain medical attention.

Ingestion If ingested, wash mouth out with water. If irritation or discomfort occurs, seek

medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

May cause damage to organs.

May be harmful if swallowed

May be harmful In contact with skin

Causes serious eye damage.

Causes skin irritation.

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

If eye irritation persists: Get medical advice/attention.

Section 5 Fire Fighting Measures

Flammable Properties Flammable liquid and vapor.

5.1 Extinguishing Media Dry chemical, carbon dioxide or alcohol resistant foam. Use water spray to cool

containers exposed to fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

Vapors form explosive mixtures with air above flash point. Vapors are heavier

than air; fire may flash from ignition source back along vapor trail.

Hazardous Combustion Products

No combustion products posing significant hazards are expected from this

product (an aqueous solution).



Revised (year/month/day) 2015/04/15

Section 5 Fire Fighting Measures (Continued)

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 PrecautionsObserve general safety guidelines for protection; avoid eye and skin contact.

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

6.2 Environmental Precautions Contain spill to prevent migration or evaporation.

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 Ventilate area. Remove all sources of ignition. Contain spill and collect with inert

absorbent and place in a suitable container for disposal.

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** Use good laboratory procedures; avoid eye and skin contact.

7.2 Conditions for safe storage, including any incompatibilities

Store at 15 to 30°C, as directed on the product label.

To maintain product quality, store according to the instructions in the product

labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible

materials (section 10).

7.3 Specific end usesNo further relevant information available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA

Hydrogen Peroxide CAS # 7722-84-1 1 ppm TWA; 1.4 mg/m3 TWA

ACGIH

Hydrogen Peroxide CAS # 7722-84-1

1 ppm TWA



Revised (year/month/day) 2015/04/15

Section 8 Exposure Controls and Personal Protection (Continued)

DFG MAK

Hydrogen Peroxide 0.5 ppm Peak; 0.71 mg/m3 Peak; 0.5 ppm TWA MAK; 0.71 mg/m3 TWA MAK CAS # 7722-84-1

Ireland

Hydrogen Peroxide 1 ppm TWA; 1.5 mg/m3 TWA; 2 ppm STEL; 3 mg/m3 STEL

CÁS # 7722-84-1

IOELVs None established

NIOSH

Hydrogen Peroxide 75 ppm IDLH; 1 ppm TWA; 1.4 mg/m3 TWA CAS # 7722-84-1

Japan None established

8.2 Exposure controls

Engineering ControlsNo 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 Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin

contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate

government standards.

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

protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory

protection should be evaluated by a qualified professional.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State Liquid Specific Gravity 0.90 @20°C

(Water=1.0)

Color Colorless Solubility

Transparency Clear Water Miscible

Odor Alcohol odor Organic Not determined

pH 5-5.5 Partition coefficient: Not determined

n-octanol/water

Freezing Point Not determined Auto-ignition Temp. Not determined

Boiling Point < 100°C (212°F) **Decomposition** Not determined

Temperature

Flash Point 21°C (69.8°F) Percent Volatiles Not determined



Not applicable

Revised (year/month/day) 2015/04/15

Section 9 Physical and Chemical Properties (Continued)

Not determined 18 mm Hg @19°C **Evaporation Rate** Vapor Pressure

Not determined Flammability (Solid, Gas) Not applicable Viscosity

Flammability Limits **Explosive Properties Vapor Density** 1.6 (air=1) **Oxidizing Properties** Not applicable

Odor Threshold Not applicable

9.2 Other Information No further relevant information available.

Not determined

Section 10 Stability and Reactivity

No further relevant information available. 10.1 Reactivity

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

10.3 Possibility of hazardous reactions

Avoid exposure to heat and incompatible materials.

10.4 Conditions to Avoid Avoid contact with incompatible materials.

Avoid exposure to heat and direct sunlight.

10.5 Incompatible materials Oxidizing agents

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

Hydrogen Peroxide Inhalation LC50 Rat 2 mg/L 4 h; Oral LD50 Rat 801 mg/kg; Dermal LD50 Rat 4060 CAS # 7722-84-1

mg/kg; Dermal LD50 Rabbit 2000 mg/kg

octylphenoxypoly(ethoxyethanol) Oral LD50 Rat 4190 mg/kg

CAS # 9036-19-5

Primary Routes of Exposure

Eve contact, ingestion, inhalation, and skin contact.

Causes skin irritation. Skin Corrosion/Irritation

Serious eye damage/eye

irritation

Contact may cause serious eye damage.

Respiratory/skin sensitization No data available.

Carcinogenicity This product does not contain a reportable concentration (≥ 0.1%) of any ingredient

listed as carcinogen by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

No data available. Germ cell mutagenicity No data available. Reproductive Toxicity

> ©2015 Beckman Coulter Inc. Global SDS - English



Revised (year/month/day) 2015/04/15

Section 11 Toxicological Information (Continued)

Specific target organ toxicity - single exposure

May cause damage to organs.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard No data available.

Other Information May be harmful if swallowed

May be harmful In contact with skin

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species

Citric Acid 96 h LC50 Lepomis macrochirus: 1516 mg/L [static]

CAS # 77-92-9

Hydrogen Peroxide 96 h LC50 Pimephales promelas: 16.4 mg/L: 96 h LC50 Lepomis macrochirus:

CAS # 7722-84-1 18-56 mg/L [static]; 96 h LC50 Oncorhynchus mykiss: 10.0-32.0 mg/L [static]

Microtox No information available.

Water Flea

Hydrogen Peroxide 24 h EC50 Daphnia magna: 7.7 mg/L; 48 h EC50 Daphnia magna: 18 - 32

CÅS # 7722-84-1 mg/L [Static]

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.

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.

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 06* - chemicals consisting of or

containing dangerous substances. Dispose in accordance with national, state

and local waste regulations.

Doc. ID: 66115-75 AG Revised (year/month/day) 2015/04/15

Section	14	Transport	Information
---------	----	------------------	-------------

	Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG		
		1007	1007	4007	1007	DIN 4007		
14.1	UN/ID Number	1987	1987	1987	1987	PIN - 1987		
14.2	Shipping Name	Alcohols, n.o.s. (Ethanol methanol solution)						
14.3	Hazard Class	3 Flammable Liquids	3 Flammable liquids	3 Flammable liquid	3 Flammable Liquids	3 Flammable Liquids		
	Subsidiary Risk	None	None	None	None	None		
	Classification Code	Not applicable	Not applicable	Not applicable	F1	Not applicable		
14.4	Packing Group	II	II	II	II	II		
	Special Provisions	A3	274	None	None	None		
	Additional information	1						
	IATA ERG Code	3L	Not applicable	Not applicable	Not applicable	Not applicable		
	EmS	Not applicable	F-E, S-D	Not applicable	Not applicable	Not applicable		
	NAERG Code	Not applicable	Not applicable	127	Not applicable	127		
14.5	Environmental Hazards							
	Marine Pollutant	Not applicable	No	Not applicable	Not applicable	Not applicable		
440	Consider Descriptions	£						

14.6 Special Precautions for user

Warning: Flammable liquid.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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 Ethylene Oxide is subject to reporting requirements of Section 313, Title III of

SARA. 0.1 % de minimis concentration

1,4-Dioxane is subject to reporting requirements of Section 313, Title III of SARA.

0.1 % de minimis concentration

CERCLA RG's, 40 CFR 302.4 Ethylene Oxide is listed.

1,4-Dioxane is listed.



Revised (year/month/day) 2015/04/15

Section 15 Regulatory Information (Continued)

California Proposition 65

Ethylene Oxide has been identified by the State of California to cause cancer and reproductive harm. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to cause cancer or reproductive harm.

WARNING: This product contains a chemical known to the State of California to cause cancer and reproductive harm.

1,4-Dioxane has been identified by the State of California to cause cancer. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to cause cancer or reproductive harm.

WARNING: This product contains a chemical known to the State of California

to cause cancer.

Massachusetts MSL Ethylene Oxide is listed.

1,4-Dioxane is listed.

Hydrogen Peroxide is listed.

New Jersey Dept. of Health RTK List

Ethylene Oxide is listed. 1,4-Dioxane is listed.

Hydrogen Peroxide is listed.

Pennsylvania RTK Ethylene Oxide is listed.

1,4-Dioxane is listed.

Hydrogen Peroxide is listed.

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.

According to EC Directives (1999/45/EC and 67/548 EEC)

Harmful Risk and Safety Phrases

Xn R10 Flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation,

in contact with skin and if swallowed.

S16 Keep away from sources of ignition - No smoking. S36/37 Wear suitable protective clothing and gloves.

S7 Keep container tightly closed.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN 1987

Doc. ID: 66115-75 AG Revised (year/month/day) 2015/04/15

Section 15 Regulatory Information (Continued)

Ingredients on Ingredient Disclosure List

Ethylene Oxide

Citric Acid

1,4-Dioxane

Hydrogen Peroxide

octylphenoxypoly(ethoxyethanol)

Ingredients with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

Revision Changes

Updated to GHS.

Hazard Class, hazard statements and risk phrase description from section 3

C - Corrosive

F - Highly flammable

O - Oxidising

Xi - Irritant

Xn - Harmful

R11 Highly flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation,

in contact with skin and if swallowed.

R35 Causes severe burns.

R20/22 Harmful by inhalation and if swallowed.

R36 Irritating to eyes.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R5 Heating may cause an explosion.

R8 Contact with combustible material may cause fire.

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

Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4

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

Acute Tox. Oral 5 - Acute Toxicity Oral, Category 5

Eye Dam. 1 - Eye Damage Category 1

Eye Irrit. 2 - Eye Irritation Category 2

Flam. Lig. 2 - Flammable Liquids, Category 2



Abbreviations and Acronyms

SAFETY DATA SHEET

Doc. ID: 66115-75 AG Revised (year/month/day) 2015/04/15

Section 16 Other Information (Continued)

Ox. Liq. 1 - Oxidizing Liquids Category 1

Skin Corr. 1A - Skin Corrosion Category 1A

STOT SE 2 - Specific Target Organ Toxicity Single Exposure Category 2

STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3

H225 - Highly flammable liquid and vapour.

H271 - May cause fire or explosion; strong oxidiser.

H302 - Harmful if swallowed.

H303 - May be harmful if swallowed

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H371 - May cause damage to organs.

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road

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 - International Air Transport Association

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

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%



Revised (year/month/day) 2015/04/15

Section 16 Other Information (Continued)

EC50 - Effective Concentration, 50%

Beckman Coulter, the Beckman Coulter Logo, and Gastroccult are trademarks of Beckman Coulter, Inc and are registered in the USPTO.

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

WHILE BECKMAN COULTER, INC. BELIEVES THE INFORMATION CONTAINED HEREIN IS VALID AND ACCURATE, MAKES NO WARRANTY OR REPRESENTATION AS TO ITS VALIDITY, ACCURACY, OR CURRENCY. BECKMAN COULTER, INC. SHALL NOT BE LIABLE OR OTHERWISE RESPONSIBLE IN ANY WAY FOR USE OF EITHER THIS INFORMATION OR MATERIALS TO WHICH IT APPLIES. DISPOSAL OF HAZARDOUS MATERIALS MAY BE SUBJECT TO LOCAL LAWS OR REGULATIONS.