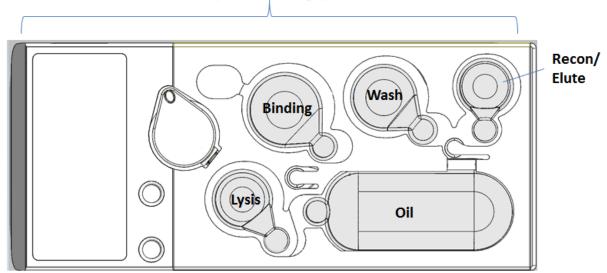


Introduction to Safety Data Sheets for ePlex® products

The ePlex cartridge contains six separate components for which a safety data sheet is required. The figure below shows the location and name of each component in the cartridge. When reading the Safety Data Sheet, please note the component name shown under Product Name in Section 1.

Detection/Salting

(inside cartridge)



SAFETY DATA SHEET



Revision Date 11-Apr-2017

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Detection/Salting Component for: ePlex® Blood Culture Identification

Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex

Fungal Pathogen Panel

Other means of identification

UN-Number UN1502

Synonyms ePlex Blood Culture Identification Gram-Negative Panel, EA002012, EA002112,

EA002212, EA002048, EA002148, EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212, EA003048, EA003148, EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148,

EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248,

KT022093, KT022094, KT022095, KT022277, KT022278, KT022279

Recommended use of the chemical and restrictions on use

Recommended Use In vitro diagnostic use, investigational use and for research use

Uses advised against No information available

Supplier's details

Supplier Address GenMark Diagnostics 5964 La Place Court Carlsbad, CA 92008 USA

TEL: 1-800-373-6767

Emergency telephone number

Emergency Telephone 1-800-424-9300

Number

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Oxidizing solids	Category 1

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word **Danger**

Hazard Statements

- Harmful if swallowed
- Causes skin irritation
- Causes serious eye irritation
- May cause fire or explosion; strong oxidizer



Appearance Grayish white.

Physical State Solid (compressed).

Odor Pungent.

Precautionary Statements

Prevention

- Keep away from heat/sparks/open flames/hot surfaces No smoking.
- · Keep/Store away from clothing/ other combustible materials
- Take any precaution to avoid mixing with combustibles
- · Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- · Wear fire/flame resistant/retardant clothing

General Advice

• Specific treatment (see supplemental instructions on the administration of antidotes on this label)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

Skin

- · Wash contaminated clothing before reuse.
- IF ON SKIN: Wash with plenty of soap and water.
- IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes
- If skin irritation occurs: Get medical advice/attention.

Ingestion

- · Rinse mouth.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Fire

- In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion
- In case of fire: Use carbon dioxide, alcohol-resistant foam, or water spray for extinction.

Storage

None

Disposal

• Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms ePlex Blood Culture Identification Gram-Negative Panel,

EA002012, EA002112, EA002212, EA002048, EA002148,

EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212, EA003048, EA003148,

EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148, EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248, KT022093, KT022094, KT022095, KT022277, KT022278,

KT022279

Chemical Name	CAS-No	Weight %	Trade secret
Guanidine hydrochloride	50-01-1	45	*
Sodium perchlorate	7601-89-0	14	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Do not get in eyes, on skin, or on

clothing.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical

attention if irritation persists.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical

advice/ attention.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Consult a physician. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration.

WPS-GNMR-002B - Detection/Salting Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Call a POISON CENTER or doctor/physician if exposed or you feel unwell. Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Consult a physician.

Protection of First-aidersUse personal protective equipment.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Eye irritation/reactions. Skin irritation. Effects observed upon exposure may include the

following: Nausea. Tremors. Headaches. Hypoactivity. Dizziness. Vomiting. Effects of

exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Ingestion

Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Emits toxic fumes under fire conditions: Hydrogen chloride gas. Sodium oxides. Carbon oxides. Nitrogen oxides (NOx).

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Avoid dust formation. Avoid inhalation of dust. Refer to Section 8 for personal protective equipment.

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or

sanitary sewer system. Prevent entry into waterways, sewers, basements or confined

areas.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers. Avoid dust formation. Do not dry sweep

dust. Wipe dust with wet absorbent gauze. Keep in suitable and closed containers for

disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Avoid dust formation. Avoid contact with skin, eyes and clothing. Remove and wash contaminated

clothing before re-use.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from open

flames, hot surfaces and sources of ignition. Keep away from combustible material.

Incompatible Products Organic material. Powdered metals. Strong acids. Forms shock-sensitive mixtures with

other materials including powdered metals and magnesium.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Handling

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Use equipment conforming and approved under

appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin and Body Protection Protective gloves. Long sleeved clothing. Please observe the instructions regarding

permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such

as the danger of cuts, abrasion.

Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate use a full-face

particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Solid (compressed). Appearance Grayish white.

Odor Pungent. Odor Threshold No information available.

PropertyValuesRemarks/ - MethodpHNo data availableNone knownMelting Point/RangeNo data availableNone known

Boiling Point/Boiling Range
No data available
None known
No data available
None known
Evaporation rate
No data available
None known
No data available
None known
None known
No data available
None known
None known
None known

upper flammability limitNo data availablelower flammability limitNo data available

Vapor PressureNo data availableNone knownVapor DensityNo data availableNone known

Specific Gravity No data available None known **Water Solubility** No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known None known **Autoignition Temperature** No data available No data available **Decomposition Temperature** None known No data available None known Viscosity

Flammable Properties Not flammable

Explosive PropertiesNo data available

Oxidizing Properties Oxidizer.

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Organic material. Powdered metals. Strong acids. Forms shock-sensitive mixtures with other materials including powdered metals and magnesium.

Hazardous decomposition products

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract.

Eye ContactContact with eyes may cause serious eye irritation based on the components present within

the product.

Skin Contact Expected to be an irritant based on components

Ingestion Harmful if swallowed.

WPS-GNMR-002B - Detection/Salting Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Guanidine hydrochloride	= 475 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Sodium perchlorate	= 2100 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects and also chronic effects from short and long term exposure

SensitizationDid not cause sensitization on laboratory animals. **Mutagenic Effects**In vitro tests did not show mutagenic effects.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Chronic Toxicity
No information available.
No information available.
Avoid repeated exposure.

Target Organ Effects Liver. Eyes. Skin. Blood. Gastrointestinal tract (GI).

Aspiration Hazard No information available.

Numerical measures of toxicity - Product

Unknown acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 847 mg/kg, Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product does not contain any substances known to be hazardous to the environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Guanidine hydrochloride		LC50 48 h: = 1758 mg/L	EC50 = 88.7 mg/L 18 h	
50-01-1		(Leuciscus idus)	_	

Persistence and Degradability No information available.

Bioaccumulation No information available.

1		
	Chemical Name	Log Pow
ı	Guanidine hydrochloride	-1.7

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of contents/container in accordance with local regulation

Contaminated Packaging Do not re-use empty containers.

US EPA Waste Number D001

14. TRANSPORT INFORMATION

Note: When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code

of E1, E2, E4, or E5, this item meets the requirements of the De Minimis Quantities exemption, per IATA 2.6.10, IMDG 3.5.1.3, ADR 3.5.1.4 and DOT 49 CFR 173.4b.

Therefore, this product is not subject to dangerous goods regulations.

Quantity of sodium perchlorate per inner packaging:

0.03 g in 12 test 0.12 g in 48 test

DOT

UN-Number UN1502

Proper shipping name Sodium perchlorate

Hazard Class 5.1 Packing Group

Description UN1502, Sodium perchlorate, 5.1, II

Emergency Response Guide 140

Number

TDG

UN-Number UN1502

Proper Shipping Name Sodium perchlorate

Hazard Class 5.1 Packing Group II

Description UN1502, Sodium perchlorate, 5.1, II

MEX

UN-Number UN1502

Proper Shipping Name Sodium perchlorate

Hazard Class 5.1 Packing Group II

Description UN1502, Sodium perchlorate, 5.1, II

ICAO

UN-Number UN1502

Proper shipping name Sodium perchlorate

Hazard Class 5.1 Packing Group II

Description UN1502, Sodium perchlorate, 5.1, II

<u>IATA</u>

UN-Number UN1502

Proper Shipping Name Sodium perchlorate

Hazard Class 5.1 Packing Group II ERG Code 5L

Description UN1502, Sodium perchlorate, 5.1, II

IMDG/IMO

UN-Number UN1502

Proper Shipping Name Sodium perchlorate

Hazard Class 5.1
Packing Group II
EmS No. F-H, S-Q

Description UN1502, Sodium perchlorate, 5.1, II

<u>RID</u>

UN-Number UN1502

Proper Shipping Name Sodium perchlorate

Hazard Class 5.1
Packing Group || Classification Code 02

Description UN1502, Sodium perchlorate, 5.1, II

<u>ADR</u>

UN-Number UN1502

Proper Shipping Name Sodium perchlorate

Hazard Class 5.1 Packing Group II

WPS-GNMR-002B - Detection/Salting Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Classification Code O2
Tunnel Restriction Code (E)

Description UN1502, Sodium perchlorate, 5.1, II, (E)

<u>ADN</u>

Proper Shipping Name Sodium perchlorate

Hazard Class 5.1
Packing Group II
Classification Code O2

Description UN1502, Sodium perchlorate, 5.1, II

Limited Quantity 1 kg

15. REGULATORY INFORMATION

International Inventories

TSCA All components of this product are either listed or are exempt on the TSCA inventory.

DSL Substances comply or are exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Sodium perchlorate	X	X	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Revision Date 11-Apr-2017

WPS-GNMR-002B - Detection/Salting Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

NFPA Health Hazard 2 Flammability 0 Instability 2 Physical and Chemical

Hazards OX

Health Hazard 2 Flammability 0 Physical Hazard 2 Personal Protection D

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110

1-800-572-6501

Issuing Date11-Apr-2017Revision Date11-Apr-2017Revision NoteInitial Release.

General Disclaimer

The information provided herein is correct to the best of our knowledge, information and belief at the date of its publication. The information provided is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. We make no warranty, express or implied, with respect to such information and we assume no liability as a result of its use. Users should make their own investigation to determine the suitability of this information for their particular purposes and must make their own determination of the effects, properties, protections and disposal which pertain to their particular conditions. GenMark Diagnostics, Inc. shall not be held liable for any damage or losses resulting from the handling, use, storage or disposal of or contact with this product.

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End of Safety Data Sheet

SAFETY DATA SHEET

Revision Number 0



Revision Date 11-Apr-2017

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Binding Component for: ePlex® Blood Culture Identification

Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex

Fungal Pathogen Panel

Other means of identification

Synonyms ePlex Blood Culture Identification Gram-Negative Panel, EA002012, EA002112,

EA002212, EA002048, EA002148, EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212.

EA003048, EA003148, EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148,

EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248,

KT022093, KT022094, KT022095, KT022277, KT022278, KT022279

Recommended use of the chemical and restrictions on use

Recommended Use In vitro diagnostic use, investigational use and for research use

Uses advised against No information available

Supplier's details

Supplier Address GenMark Diagnostics 5964 La Place Court Carlsbad, CA 92008

USA

TEL: 1-800-373-6767

Emergency telephone number

Emergency Telephone

1-800-424-9300

Number

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Colorless. Physical State Liquid. Odor No information available.

Precautionary Statements

Prevention

None

General Advice

None

Storage

None

Disposal

None

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Synonyms

ePlex Blood Culture Identification Gram-Negative Panel, EA002012, EA002112, EA002212, EA002048, EA002148,

EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212, EA003048, EA003148,

EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148, EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248, KT022093, KT022094, KT022095, KT022277, KT022278,

KT022279

4. FIRST AID MEASURES

WPS-GNMR-001B - Binding Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Description of necessary first-aid measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash skin with soap and water. If skin irritation or rash occurs: Get medical

advice/attention.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention immediately if symptoms occur. If breathing is difficult, give oxygen. If

not breathing, give artificial respiration.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects None known

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Emits toxic fumes under fire conditions: Hydrogen chloride gas, Carbon oxides, Nitrogen oxides (NOx), Sodium oxides.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Use personal

protective equipment as required. Refer to Section 8 for personal protective equipment.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes and clothing. Avoid breathing vapors or mists. Wash thoroughly after handling.

Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Use equipment conforming and approved under

appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin and Body Protection Protective gloves. Lightweight protective clothing. Please observe the instructions regarding

permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such

as the danger of cuts, abrasion.

Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate use a full-face

particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid. Appearance Colorless.

Odor No information available. Odor Threshold No information available.

 Property
 Values
 Remarks/ - Method

 pH
 No data available
 None known

 Melting Point/Range
 No data available
 None known

Melting Point/RangeNo data availableNone knownBoiling Point/Boiling RangeNo data availableNone knownFlash PointNo data availableNone knownEvaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone known

Flammability Limits in Air

upper flammability limitNo data availablelower flammability limitNo data available

Vapor Pressure No data available None known No data available **Vapor Density** None known **Specific Gravity** No data available None known No data available **Water Solubility** None known Solubility in other solvents None known No data available Partition coefficient: n-octanol/waterNo data available None known

WPS-GNMR-001B - Binding Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Autoignition TemperatureNo data availableNone knownDecomposition TemperatureNo data availableNone knownViscosityNo data availableNone known

Flammable Properties Not flammable

Explosive PropertiesNo data available **Oxidizing Properties**No data available

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

InhalationThere is no data available for this product.Eye ContactThere is no data available for this product.Skin ContactThere is no data available for this product.IngestionThere is no data available for this product.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known

Delayed and immediate effects and also chronic effects from short and long term exposure

WPS-GNMR-001B - Binding Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

Numerical measures of toxicity - Product

Unknown acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

 LD50 Oral
 >5000 mg/kg

 LD50 Dermal dust/mist
 >5000 mg/kg

 >5 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna (Water
		-	Microorganisms	Flea)
Polyethylene glycol		LC50 24 h: > 5000 mg/L	EC50 = 100000 mg/L 15 min	
25322-68-3		(Carassius auratus)		

Persistence and Degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL Substances comply or are exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
NFPA	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -	
<u>HMIS</u>	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X	
Prepared By	Prepared By Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501				
Issuing Date	11-Apr-2	2017			
Revision Date	11-Apr-2017				
Revision Note	Initial Re	elease.			

General Disclaimer

WPS-GNMR-001B - Binding Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

The information provided herein is correct to the best of our knowledge, information and belief at the date of its publication. The information provided is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. We make no warranty, express or implied, with respect to such information and we assume no liability as a result of its use. Users should make their own investigation to determine the suitability of this information for their particular purposes and must make their own determination of the effects, properties, protections and disposal which pertain to their particular conditions. GenMark Diagnostics, Inc. shall not be held liable for any damage or losses resulting from the handling, use, storage or disposal of or contact with this product.

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End of Safety Data Sheet

SAFETY DATA SHEET



Revision Date 11-Apr-2017

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name

Lysis Component for: ePlex® Blood Culture Identification Gram-Negative Panel,

ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Other means of identification

Synonyms ePlex Blood Culture Identification Gram-Negative Panel, EA002012, EA002112,

EA002212, EA002048, EA002148, EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212,

EA003048, EA003148, EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148,

EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248,

KT022093, KT022094, KT022095, KT022277, KT022278, KT022279

Recommended use of the chemical and restrictions on use

Recommended Use In vitro diagnostic use, investigational use and for research use

Uses advised against No information available

Supplier's details

Supplier Address GenMark Diagnostics 5964 La Place Court Carlsbad, CA 92008

USA

TEL: 1-800-373-6767

Emergency telephone number

Emergency Telephone

Number

1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 2

Serious Eye Damage/Eye Irritation Category 2

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word Warning

Hazard Statements

- Harmful if swallowed
- Causes skin irritation
- Causes serious eye irritation



Appearance Colorless.

Physical State Liquid.

Odor No information available.

Precautionary Statements

Prevention

- · Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.

General Advice

Specific treatment (see supplemental instructions on the administration of antidotes on this label)

Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

Skin

- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.

Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- · Rinse mouth.

Storage

None

Disposal

• Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

Harmful to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms ePlex Blood Culture Identification Gram-Negative Panel,

EA002012, EA002112, EA002212, EA002048, EA002148,

EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212, EA003048, EA003148,

EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148, EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248, KT022093, KT022094, KT022095, KT022277, KT022278,

KT022279

Chemical Name	CAS-No	Weight %	Trade secret
Urea	57-13-6	25-50	*
Guanidine hydrochloride	50-01-1	25-50	*
Sodium lauryl sulfate	151-21-3	<2	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Do not get in eyes, on skin, or on

clothing.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical

attention if irritation persists.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical

advice/ attention.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Consult a physician. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration.

Ingestion Call a POISON CENTER or doctor/physician if exposed or you feel unwell. Clean mouth

with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Consult a physician.

Protection of First-aidersUse personal protective equipment.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Eye irritation/reactions. Skin irritation. Effects observed upon exposure may include the

following: Nausea. Tremors. Headaches. Hypoactivity. Dizziness. Vomiting. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Emits toxic fumes under fire conditions: Hydrogen chloride gas. Sodium oxides. Carbon oxides. Nitrogen oxides (NOx).

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Avoid breathing

vapors or mists. Refer to Section 8 for personal protective equipment.

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Avoid release to the environment. Do

not flush into surface water or sanitary sewer system. Prevent entry into waterways,

sewers, basements or confined areas. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not

breathe vapors or spray mist. Remove and wash contaminated clothing before re-use. Do

not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure GuidelinesThis product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Use equipment conforming and approved under

appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin and Body Protection Protective gloves. Long sleeved clothing. Please observe the instructions regarding

permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such

as the danger of cuts, abrasion.

Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate use a full-face

particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid.	Appearance	Colorless.
Odor	No information available	Oder Threehold	No information availa

Odor No information available. Odor Threshold No information available.

Remarks/ - Method Property Values No data available Hq None known **Melting Point/Range** No data available None known **Boiling Point/Boiling Range** No data available None known Flash Point No data available None known No data available **Evaporation rate** None known Flammability (solid, gas) No data available None known

Flammability Limits in Air

upper flammability limit
lower flammability limit
Vapor Pressure

No data available
No data available
No data available

None known **Vapor Density** No data available None known **Specific Gravity** No data available None known **Water Solubility** No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known No data available **Autoignition Temperature** None known **Decomposition Temperature** No data available None known **Viscosity** No data available None known

Flammable Properties Not flammable

Explosive Properties No data available
Oxidizing Properties No data available

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract.

Eye ContactContact with eyes may cause serious eye irritation based on the components present within

the product.

Skin Contact Expected to be an irritant based on components

Ingestion Harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Guanidine hydrochloride	= 475 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Urea	= 8471 mg/kg (Rat)	-	-
Sodium lauryl sulfate	= 1288 mg/kg (Rat)	= 200 mg/kg (Rabbit)	>3900 mg/m³ (Rat) 1 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects and also chronic effects from short and long term exposure

SensitizationDid not cause sensitization on laboratory animals. **Mutagenic Effects**In vitro tests did not show mutagenic effects.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive ToxicitySTOT - single exposure
No information available.
No information available.

WPS-GNMR-003B - Lysis Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

STOT - repeated exposure No information available.
Chronic Toxicity Avoid repeated exposure.

Target Organ Effects Liver. Eyes. Skin. Blood. Gastrointestinal tract (GI).

Aspiration Hazard No information available.

Numerical measures of toxicity - Product

Unknown acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 484 mg/kg; Acute toxicity estimate LD50 Dermal 28601 mg/kg; Acute toxicity estimate mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Guanidine hydrochloride 50-01-1		LC50 48 h: = 1758 mg/L (Leuciscus idus)	EC50 = 88.7 mg/L 18 h	
Urea 57-13-6		LC50: 16200-18300 mg/L Poecilia reticulata 96 h	EC50 = 23914 mg/L 5 min	EC50 48 h: = 3910 mg/L Static (Daphnia magna) EC50 24 h: > 10000 mg/L (Daphnia magna Straus)
Sodium lauryl sulfate 151-21-3	EC50 72 h: = 53 mg/L (Desmodesmus subspicatus) EC50 96 h: 30 - 100 mg/L (Desmodesmus subspicatus) EC50 96 h: = 117 mg/L (Pseudokirchneriella subcapitata) EC50 96 h: 3.59 - 15.6 mg/L static (Pseudokirchneriella subcapitata) EC50 96 h: = 42 mg/L (Desmodesmus subspicatus)	LC50 96 h: 8 - 12.5 mg/L static (Pimephales promelas) LC50 96 h: 15 - 18.9 mg/L static (Pimephales promelas) LC50 96 h: 22.1 - 22.8 mg/L static (Pimephales promelas) LC50 96 h: 22.1 - 22.8 mg/L static (Pimephales promelas) LC50 96 h: 4.3 - 8.5 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 4.62 mg/L (Oncorhynchus mykiss) LC50 96 h: = 4.2 mg/L (Oncorhynchus mykiss) LC50 96 h: 10.2 - 22.5 mg/L semi-static (Pimephales promelas) LC50 96 h: 6.2 - 9.6 mg/L (Pimephales promelas) LC50 96 h: 13.5 - 18.3 mg/L semi-static (Poecilia reticulata) LC50 96 h: 10.8 - 16.6 mg/L static (Poecilia reticulata) LC50 96 h: = 1.31 mg/L semi-static (Cyprinus carpio) LC50 96 h: = 7.97 mg/L flow-through (Brachydanio rerio) LC50 96 h: 9.9 - 20.1 mg/L semi-static (Brachydanio rerio) LC50 96 h: 4.2 - 4.8 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 4.2 - 4.8 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 5.8 - 7.5 mg/L static (Pimephales promelas) LC50 48 h: = 4.1 mg/L static (Pimephales promelas) LC50 48 h: = 4.1 mg/L static (Leuciscus idus)	EC50 = 0.46 mg/L 30 min EC50 = 0.72 mg/L 15 min EC50 = 1.19 mg/L 5 min	EC50 48 h: = 1.8 mg/L (Daphnia magna) EC50 24 h: = 21.2 mg/L (Daphnia magna)

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Log Pow
Urea	-1.59
Guanidine hydrochloride	-1.7
Sodium lauryl sulfate	1.6

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA All components of this product are either listed or are exempt on the TSCA inventory.

DSL Substances comply or are exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

WPS-GNMR-003B - Lysis Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
NFPA	Health Hazard 2	Flammability 0	Instability 0	Physical and Chemical Hazards -	
<u>HMIS</u>	Health Hazard 2	Flammability 0	Physical Hazard 0	Personal Protection X	
Prepared By	23 Britisl	Stewardship h American Blvd. NY 12110 72-6501			
Issuing Date Revision Date Revision Note	11-Apr-2 11-Apr-2 Initial Re	2017			

General Disclaimer

The information provided herein is correct to the best of our knowledge, information and belief at the date of its publication. The information provided is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. We make no warranty, express or implied, with respect to such information and we assume no liability as a result of its use. Users should make their own investigation to determine the suitability of this information for their particular purposes and must make their own determination of the effects, properties, protections and disposal which pertain to their particular conditions. GenMark Diagnostics, Inc. shall not be held liable for any damage or losses resulting from the handling, use, storage or disposal of or contact with this product.

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End of Safety Data Sheet

SAFETY DATA SHEET



Revision Date 14-Jun-2017

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Oil Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex

Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Other means of identification

Synonyms ePlex Blood Culture Identification Gram-Negative Panel, EA002012, EA002112,

EA002212, EA002048, EA002148, EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212,

EA003048, EA003148, EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148,

EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248,

KT022093, KT022094, KT022095, KT022277, KT022278, KT022279

Recommended use of the chemical and restrictions on use

Recommended Use In vitro diagnostic use, investigational use and for research use

Uses advised against No information available

Supplier's details

Supplier Address GenMark Diagnostics 5964 La Place Court Carlsbad, CA 92008

USA

TEL: 1-800-373-6767

Emergency telephone number

Emergency Telephone 1-800-424-9300

Number

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word

None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Clear. Viscous.

Physical State Liquid.

Odor No information available.

Precautionary Statements

Prevention

None

General Advice

None

Storage

None

Disposal

None

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

None known.

100% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

ePlex Blood Culture Identification Gram-Negative Panel, EA002012, EA002112, EA002212, EA002048, EA002148, EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel,

EA003012, EA003112, EA003212, EA003048, EA003148, EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148, EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248, KT022093, KT022094, KT022095, KT022277, KT022278,

KT022279

Chemical Name	CAS-No	Weight %	Trade secret
Poly[oxy(dimethylsilylene)]	9016-00-6	>95	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4	FIDAT	AID		OLIF	<u> </u>
4	FIRST	$\Delta II)$	$M \vdash \Delta$	SILL	? – S

WPS-GNMR-004B - Oil Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Description of necessary first-aid measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash skin with soap and water. If skin irritation or rash occurs: Get medical

advice/attention.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention immediately if symptoms occur. If breathing is difficult, give oxygen. If

not breathing, give artificial respiration.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects None known

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Use personal

protective equipment as required. Refer to Section 8 for personal protective equipment.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes and clothing. Avoid breathing vapors or mists. Wash thoroughly after handling.

Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure GuidelinesThis product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face ProtectionTightly fitting safety goggles. Use equipment conforming and approved under appropriate

government standards such as NIOSH (US) or EN166 (EU).

Skin and Body ProtectionLightweight protective clothing. Nitrile rubber. Neoprene gloves. Please observe the

instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which

the product is used, such as the danger of cuts, abrasion.

Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate use a full-face

particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene Measures Do not eat, drink or smoke when using this product. Keep away from food, drink and animal

feeding stuffs. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Provide regular cleaning of equipment, work area and clothing. Wash hands

before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid. Appearance Clear. Viscous.

Odor No information available. Odor Threshold No information available.

<u>Property</u> <u>Values</u> <u>Remarks/ - Method</u>

No data available None known Hq **Melting Point/Range** < -40 °C None known **Boiling Point/Boiling Range** > 205 °C None known **Flash Point** 135 °C None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limits in Air
upper flammability limit
lower flammability limit
No data available
No data available

Vapor PressureNo data availableNone knownVapor DensityNo data availableNone known

WPS-GNMR-004B - Oil Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Specific Gravity 0.918 None known **Water Solubility** No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known 443 °C **Autoignition Temperature** None known None known **Decomposition Temperature** No data available 5 cSt None known Viscosity

Not flammable Flammable Properties

No data available **Explosive Properties Oxidizing Properties** No data available

Other information

No data available **VOC Content (%)**

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Oxidizing agents.

Hazardous decomposition products

Formaldehyde. Silicon dioxide. Organic acids.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information. Inhalation

No known hazard by inhalation. Inhalation of mist may cause irritation to the respiratory

Eve Contact May cause slight irritation. **Skin Contact** May cause mild skin irritation.

Ingestion No known effect. Ingestion may cause stomach discomfort.

Chemical N	lame LD50 Oral	LD50 Dermal	LC50 Inhalation
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WPS-GNMR-004B - Oil Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Poly[oxy(dimethylsilylene)]	> 40000 mg/kg (rat)	-	>535 mg/L (rat)
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Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known

Delayed and immediate effects and also chronic effects from short and long term exposure

Not classified Sensitization

Mutagenic Effects Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive Toxicity Based on available data, the classification criteria are not met. **Developmental Toxicity** Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met STOT - single exposure Based on available data, the classification criteria are not met STOT - repeated exposure

Chronic Toxicity Contains a known or suspected reproductive toxin.

Aspiration Hazard None of the ingredients are known to be an aspiration hazard.

Numerical measures of toxicity - Product

Unknown acute toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral >2000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Poly[oxy(dimethylsilylene)]		LC50 96 h: > 10000 mg/L		
9016-00-6		static (Lepomis macrochirus)		
		LC50 96 h: > 10000 mg/L		
		static (Oncorhynchus		
		mykiss)		

Persistence and Degradability No information available.

No information available. Bioaccumulation

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

or local diligian dialogon ratio

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA All components of this product are either listed or are exempt on the TSCA inventory.

DSL Substances comply or are exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
NFPA_	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards -	
<u>HMIS</u>	Health Hazard 1	Flammability 1	Physical Hazard 0	Personal Protection X	

WPS-GNMR-004B - Oil Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Prepared By Product Stewardship

23 British American Blvd.

Latham, NY 12110 1-800-572-6501

Issuing Date11-Apr-2017Revision Date14-Jun-2017

Revision Note (M)SDS sections updated: 2, 3, 4, 8, 11, 16.

General Disclaimer

The information provided herein is correct to the best of our knowledge, information and belief at the date of its publication. The information provided is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. We make no warranty, express or implied, with respect to such information and we assume no liability as a result of its use. Users should make their own investigation to determine the suitability of this information for their particular purposes and must make their own determination of the effects, properties, protections and disposal which pertain to their particular conditions. GenMark Diagnostics, Inc. shall not be held liable for any damage or losses resulting from the handling, use, storage or disposal of or contact with this product.

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End of Safety Data Sheet

SAFETY DATA SHEET



Revision Date 11-Apr-2017

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Recon/Elution Component for: ePlex® Blood Culture Identification Gram-Negative

Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen

Panel

Other means of identification

Synonyms ePlex Blood Culture Identification Gram-Negative Panel, EA002012, EA002112, EA002212,

EA002048, EA002148, EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212,

EA003048, EA003148, EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148,

EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248,

KT022093, KT022094, KT022095, KT022277, KT022278, KT022279

Recommended use of the chemical and restrictions on use

Recommended Use In vitro diagnostic use, investigational use and for research use

Uses advised against No information available

Supplier's details

Supplier Address GenMark Diagnostics 5964 La Place Court Carlsbad, CA 92008

USA

TEL: 1-800-373-6767

Emergency telephone number

Emergency Telephone

Number

1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word

None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Colorless.

Physical State Liquid.

Odor No information available.

Precautionary Statements

Prevention

None

General Advice

None

Storage

None

Disposal

None

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

ePlex Blood Culture Identification Gram-Negative Panel, EA002012, EA002112, EA002212, EA002048, EA002148, EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212, EA003048, EA003148,

EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148, EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248, KT022093, KT022094, KT022095, KT022277, KT022278,

KT022279

Chemical Name	CAS-No	Weight %	Trade secret
Sodium azide	26628-22-8	0.2	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash skin with soap and water. If skin irritation or rash occurs: Get medical

advice/attention.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention immediately if symptoms occur. If breathing is difficult, give oxygen. If

not breathing, give artificial respiration.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects None known

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Emits toxic fumes under fire conditions: Hydrogen chloride gas, Carbon oxides, Nitrogen oxides (NOx), Sodium oxides.

Explosion Data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

None

None.

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Use personal

protective equipment as required. Refer to Section 8 for personal protective equipment.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Keep in suitable and closed containers for disposal. Sodium azide has been reported to form lead or copper azides in laboratory plumbing. These azides are potentially explosive. To prevent buildup, flush plumbing with a large volume of water while disposing of these

solutions in the sink.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes and clothing. Avoid breathing vapors or mists. Wash thoroughly after handling.

Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium azide	Ceiling: 0.29 mg/m ³ NaN3	(vacated) S*	Ceiling: 0.1 ppm HN3
26628-22-8	Ceiling: 0.11 ppm Hydrazoic acid	(vacated) Ceiling: 0.1 ppm HN3	Ceiling: 0.3 mg/m ³ NaN3
	vapor	(vacated) Ceiling: 0.3 mg/m ³	
	•	NaN3	

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Use equipment conforming and approved under

appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin and Body Protection Protective gloves. Lightweight protective clothing. Please observe the instructions regarding

permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such

as the danger of cuts, abrasion.

Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate use a full-face

particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid. Appearance Colorless.

Odor No information available. Odor Threshold No information available.

<u>Property</u> <u>Values</u> <u>Remarks/ - Method</u>

pHNo data availableNone knownMelting Point/RangeNo data availableNone knownBoiling Point/Boiling RangeNo data availableNone knownFlash PointNo data availableNone knownEvaporation rateNo data availableNone known

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Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/w	raterNo data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

If sodium azide is eliminated through metal piping and dries, in adequate quantity, it could react with lead and copper metals forming explosive metal salts. If these products are disposed though the drain, flush with plenty of water to prevent explosive metal salt build-up. Follow local regulations for disposal of this product.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information There is no data available for this product
Inhalation There is no data available for this product.

WPS-GNMR-005B - Recon/Elution Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Eye ContactThere is no data available for this product.Skin ContactThere is no data available for this product.IngestionThere is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium azide	= 27 mg/kg (Rat)	= 20 mg/kg (Rabbit) = 50 mg/kg (-
		Rat)	

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known

Delayed and immediate effects and also chronic effects from short and long term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

Numerical measures of toxicity - Product

Unknown acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral >5000 mg/kg **LD50 Dermal** >5000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated. Contains a substance which is very toxic to the aquatic environment with long lasting effects at very low concentrations.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna (Water
		-	Microorganisms	Flea)
Sodium azide		LC50 96 h: = 0.7 mg/L		
26628-22-8		(Lepomis macrochirus) LC50		
		96 h: = 0.8 mg/L		
		(Oncorhynchus mykiss)		
		LC50 96 h: = 5.46 mg/L		
		flow-through (Pimephales		
		promelas)		

Persistence and Degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

Component	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium azide 26628-22-8 (0.2)		P105		

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL Substances comply or are exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

	Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ī	Sodium azide	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Sodium azide	X	X	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
NFPA	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -	
HMIS	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X	
Prepared By					
Issuing Date Revision Date	11-Apr-2 11-Apr-2				

General Disclaimer

Revision Note

The information provided herein is correct to the best of our knowledge, information and belief at the date of its publication. The information provided is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. We make no warranty, express or implied, with respect to such information and we assume no liability as a result of its use. Users should make their own investigation to determine the suitability of this information for their particular purposes and must make their own determination of the effects, properties, protections and disposal which pertain to their particular conditions. GenMark Diagnostics, Inc. shall not be held liable for any damage or losses resulting from the handling, use, storage or disposal of or contact with this product.

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Initial Release.

End of Safety Data Sheet

SAFETY DATA SHEET



Revision Date 11-Apr-2017

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name Wash Component for: ePlex® Blood Culture Identification Gram-Negative Panel,

ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Other means of identification

Synonyms ePlex Blood Culture Identification Gram-Negative Panel, EA002012, EA002112,

EA002212, EA002048, EA002148, EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212,

EA003048, EA003148, EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148,

EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248,

KT022093, KT022094, KT022095, KT022277, KT022278, KT022279

Recommended use of the chemical and restrictions on use

Recommended Use In vitro diagnostic use, investigational use and for research use

Uses advised against No information available

Supplier's details

Supplier Address GenMark Diagnostics 5964 La Place Court Carlsbad, CA 92008

USA

TEL: 1-800-373-6767

Emergency telephone number

Emergency Telephone Number 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Colorless. Physical State Liquid. Odor No information available.

Precautionary Statements

Prevention

None

General Advice

None

Storage

• None

Disposal

None

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Synonyms

ePlex Blood Culture Identification Gram-Negative Panel, EA002012, EA002112, EA002212, EA002048, EA002148, EA002049, ICTO00070, ICTO00070, ICTO00070, ICTO00070

EA002248, KT021836, KT022078, KT022079

ePlex Blood Culture Identification Gram-Positive Panel, EA003012, EA003112, EA003212, EA003048, EA003148,

EA003248, KT021791, KT022080, KT022081

ePlex Fungal Pathogen Panel, EA004012, EA004112, EA004212, EA004048, EA004148, EA004248, EA005012, EA005048, EA005112, EA005148, EA005212, EA005248, KT022093, KT022094, KT022095, KT022277, KT022278,

KT022279

WPS-GNMR-006B - Wash Component for: ePlex ® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash skin with soap and water. If skin irritation or rash occurs: Get medical

advice/attention.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention immediately if symptoms occur. If breathing is difficult, give oxygen. If

not breathing, give artificial respiration.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person. Consult a physician.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects None known

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Emits toxic fumes under fire conditions: Hydrogen chloride gas, Carbon oxides, Nitrogen oxides (NOx), Sodium oxides.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Use personal

protective equipment as required. Refer to Section 8 for personal protective equipment.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning UpSoak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

WPS-GNMR-006B - Wash Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes and clothing. Avoid breathing vapors or mists. Wash thoroughly after handling.

Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Use equipment conforming and approved under

appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin and Body Protection Protective gloves. Lightweight protective clothing. Please observe the instructions regarding

permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such

as the danger of cuts, abrasion.

Respiratory Protection Where risk assessment shows air-purifying respirators are appropriate use a full-face

particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid. Appearance Colorless.

Odor No information available. Odor Threshold No information available.

Values Remarks/ - Method **Property** No data available None known На No data available None known **Melting Point/Range Boiling Point/Boiling Range** No data available None known **Flash Point** No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limits in Air

upper flammability limitNo data availablelower flammability limitNo data available

Vapor Pressure
Vapor Density
No data available
No data available
None known
None known
No data available
None known

WPS-GNMR-006B - Wash Component for: ePlex® Blood Culture Identification Gram-Negative Panel, ePlex Blood Culture Identification Gram-Positive Panel, ePlex Fungal Pathogen Panel

Solubility in other solventsNo data availableNone knownPartition coefficient: n-octanol/waterNo data availableNone knownAutoignition TemperatureNo data availableNone knownDecomposition TemperatureNo data availableNone knownViscosityNo data availableNone known

Flammable Properties Not flammable

Explosive PropertiesNo data available **Oxidizing Properties**No data available

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

InhalationThere is no data available for this product.Eye ContactThere is no data available for this product.Skin ContactThere is no data available for this product.IngestionThere is no data available for this product.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization No information available. **Mutagenic Effects** No information available.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

Numerical measures of toxicity - Product

Unknown acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral >5000 mg/kg **LD50 Dermal** >5000 mg/kg **Inhalation**

dust/mist >5 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and Degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL Substances comply or are exempt

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION						
NFPA	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -		
<u>HMIS</u>	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X		
Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501					
Issuing Date	11-Apr-2017					
Revision Date	11-Apr-2	2017				
Revision Note	Initial Re	elease.				

General Disclaimer

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End of Safety Data Sheet