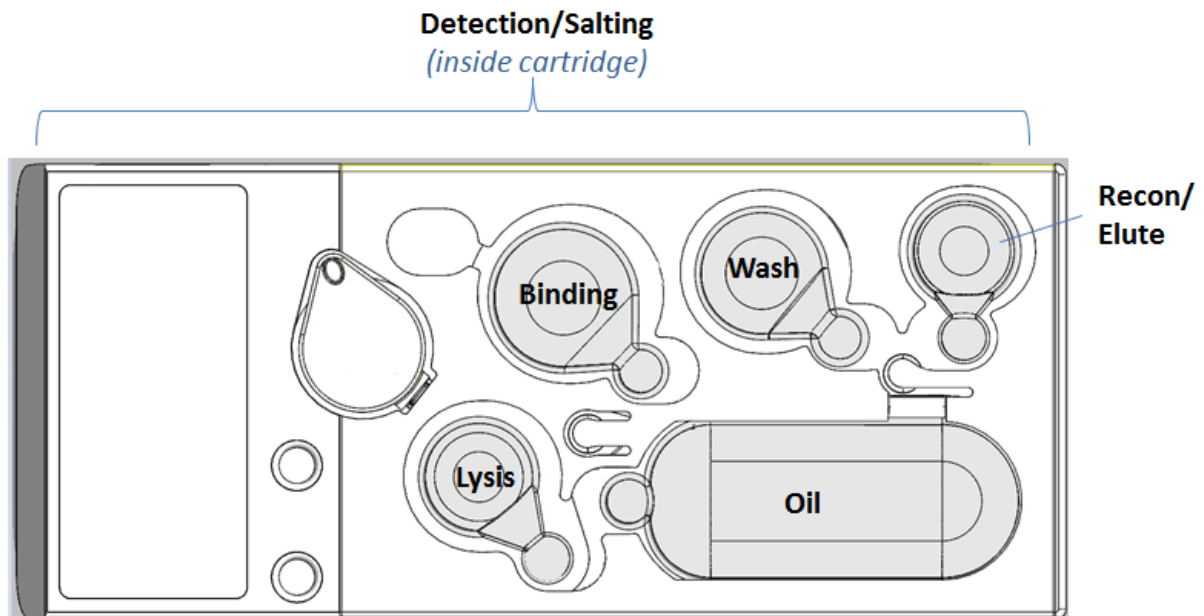


## Introduction to Safety Data Sheets for ePlex<sup>®</sup> products

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.



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

**GHS product identifier**

**Product Name** Detection/Salting Component for: ePlex® Respiratory Pathogen Panel

**Other means of identification**

**UN-Number** UN1502

**Synonyms** Respiratory Pathogen Panel, EA001012, EA001112, EA001212 EA001048, EA001148, EA001248, KT021854, KT021968, KT021980

**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
Oxidizing solids	Category 1

**GHS Label elements, including precautionary statements**

**Emergency Overview**

<b>Signal Word</b>	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)

**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**

- 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 Respiratory Pathogen Panel  
EA001012, EA001112, EA001212  
EA001048, EA001148, EA001248  
KT021854, KT021968, KT021980

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.

**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-aiders** Use 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 (CO<sub>2</sub>). 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 (NO<sub>x</sub>).

**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**

**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**

**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

**Respiratory Protection** 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. 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**

<b>Physical State</b>	Solid (compressed).	<b>Appearance</b>	Grayish white.
<b>Odor</b>	Pungent.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	No data available	None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
upper flammability limit	No data available	
lower flammability limit	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known

<b>Flammable Properties</b>	Not flammable
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	Oxidizer.

**Other information**

<b>VOC Content (%)</b>	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**

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Contact with eyes may cause serious eye irritation based on the components present within the product.
<b>Skin Contact</b>	Expected to be an irritant based on components
<b>Ingestion</b>	Harmful if swallowed.

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**

<b>Sensitization</b>	Did not cause sensitization on laboratory animals.
<b>Mutagenic Effects</b>	In vitro tests did not show mutagenic effects.
<b>Carcinogenicity</b>	Contains no ingredients above reportable quantities listed as a carcinogen.

<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic Toxicity</b>	Avoid repeated exposure.
<b>Target Organ Effects</b>	Liver. Eyes. Skin. Blood. Gastrointestinal tract (GI).
<b>Aspiration Hazard</b>	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 50-01-1		LC50 48 h: = 1758 mg/L (Leuciscus idus)	EC50 = 88.7 mg/L 18 h	

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Chemical Name	Log Pow
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** II  
**Description** UN1502, Sodium perchlorate, 5.1, II  
**Emergency Response Guide Number** 140

**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



**IATA**

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

**RID**

UN-Number UN1502  
 Proper Shipping Name Sodium perchlorate  
 Hazard Class 5.1  
 Packing Group II  
 Classification Code O2  
 Description UN1502, Sodium perchlorate, 5.1, II

**ADR**

UN-Number UN1502  
 Proper Shipping Name Sodium perchlorate  
 Hazard Class 5.1  
 Packing Group II  
 Classification Code O2  
 Tunnel Restriction Code (E)  
 Description UN1502, Sodium perchlorate, 5.1, II, (E)

**ADN**

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**

**NFPA** Health Hazard 2 Flammability 0 Instability 2 Physical and Chemical Hazards OX

**HMIS** 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 Date 11-Apr-2017  
Revision Date 11-Apr-2017  
Revision Note Initial 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.

ePlex®, eSensor®, GenMark®, GenMark Dx® and XT-8® are trademarks of GenMark Diagnostics, Inc.

**End of Safety Data Sheet**

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

### GHS product identifier

**Product Name** Binding Component for: ePlex<sup>®</sup> Respiratory Pathogen Panel

### Other means of identification

**Synonyms** Respiratory Pathogen Panel, EA001012, EA001112, EA001212  
EA001048, EA001148, EA001248, KT021854, KT021968, KT021980

### 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 Respiratory Pathogen Panel  
EA001012, EA001112, EA001212  
EA001048, EA001148, EA001248  
KT021854, KT021968, KT021980

**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 (CO<sub>2</sub>). 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

<b>Respiratory Protection</b>	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. 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).
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid.	<b>Appearance</b>	Colorless.
<b>Odor</b>	No information available.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	No data available	None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
upper flammability limit	No data available	
lower flammability limit	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known
<b>Flammable Properties</b>	Not flammable	
<b>Explosive Properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	
<b><u>Other information</u></b>		
<b>VOC Content (%)</b>	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**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Inhalation</b>	There is no data available for this product.
<b>Eye Contact</b>	There is no data available for this product.
<b>Skin Contact</b>	There is no data available for this product.
<b>Ingestion</b>	There 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**

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no ingredients above reportable quantities listed as a carcinogen.

<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	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:*

<b>LD50 Oral</b>	>5000 mg/kg
<b>LD50 Dermal</b>	>5000 mg/kg
<b>dust/mist</b>	>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 Microorganisms	Daphnia Magna (Water Flea)
Polyethylene glycol 25322-68-3		LC50 24 h: > 5000 mg/L (Carassius auratus)	EC50 = 100000 mg/L 15 min	

**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**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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				
-----------------------	--	--	--	--

<b><u>NFPA</u></b>	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
<b><u>HMIS</u></b>	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X

<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
<b>Issuing Date</b>	11-Apr-2017
<b>Revision Date</b>	11-Apr-2017
<b>Revision Note</b>	Initial 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.

ePlex®, eSensor®, GenMark®, GenMark Dx® and XT-8® are trademarks of GenMark Diagnostics, Inc.

**End of Safety Data Sheet**

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

### GHS product identifier

**Product Name** Lysis Component for: ePlex® Respiratory Pathogen Panel

### Other means of identification

**Synonyms** Respiratory Pathogen Panel, EA001012, EA001112, EA001212  
EA001048, EA001148, EA001248, KT021854, KT021968, KT021980

### 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 Respiratory Pathogen Panel  
 EA001012, EA001112, EA001212  
 EA001048, EA001148, EA001248  
 KT021854, KT021968, KT021980

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

<b>General Advice</b>	Show this safety data sheet to the doctor in attendance. Do not get in eyes, on skin, or on clothing.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Protection of First-aiders</b>	Use 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 (CO<sub>2</sub>). 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 (NO<sub>x</sub>).

##### Explosion Data

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	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 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**

<b>Physical State</b>	Liquid.	<b>Appearance</b>	Colorless.
<b>Odor</b>	No information available.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	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
Evaporation rate	No data available	None known
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/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known
<b>Flammable Properties</b>	Not flammable	
<b>Explosive Properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	
<b><u>Other information</u></b>		
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**

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Contact with eyes may cause serious eye irritation based on the components present within the product.
<b>Skin Contact</b>	Expected to be an irritant based on components
<b>Ingestion</b>	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/m <sup>3</sup> ( 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**

**Sensitization** Did 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** No information available.  
**STOT - single exposure** No information available.  
**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: 4.3 - 8.5 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 4.62 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 4.2	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)

		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: 4.06 - 5.75 mg/L static (Lepomis macrochirus) LC50 96 h: 4.2 - 4.8 mg/L flow-through (Lepomis macrochirus) LC50 96 h: = 4.5 mg/L (Lepomis macrochirus) LC50 96 h: 5.8 - 7.5 mg/L static (Pimephales promelas) LC50 48 h: = 4.1 mg/L static (Leuciscus idus)		
--	--	--	--	--

**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/NDL** - 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**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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**

<b><u>NFLA</u></b>	<b>Health Hazard</b> 2	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> -
--------------------	------------------------	-----------------------	----------------------	--

<b><u>HMIS</u></b>	<b>Health Hazard</b> 2	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	<b>Personal Protection</b> 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-2017  
**Revision Note** Initial 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.

ePlex®, eSensor®, GenMark®, GenMark Dx® and XT-8® are trademarks of GenMark Diagnostics, Inc.

**End of Safety Data Sheet**

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

### GHS product identifier

**Product Name** Oil Component for: ePlex<sup>®</sup> Respiratory Pathogen Panel

### Other means of identification

**Synonyms** Respiratory Pathogen Panel, EA001012, EA001112, EA001212  
EA001048, EA001148, EA001248, KT021854, KT021968, KT021980

### 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** 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 Respiratory Pathogen Panel  
EA001012, EA001112, EA001212  
EA001048, EA001148, EA001248  
KT021854, KT021968, KT021980

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. FIRST AID MEASURES****Description of necessary first-aid measures**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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 (CO<sub>2</sub>). 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**

**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 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** Tightly fitting safety goggles. Use equipment conforming and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

**Skin and Body Protection** Lightweight protective clothing. Nitrile rubber. Neoprene gloves. Please observe the

<b>Respiratory Protection</b>	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. 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).
<b>Hygiene Measures</b>	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

<b>Physical State</b>	Liquid.	<b>Appearance</b>	Clear. Viscous.
<b>Odor</b>	No information available.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	No data available	None known
<b>Melting Point/Range</b>	< -40 °C	None known
<b>Boiling Point/Boiling Range</b>	> 205 °C	None known
<b>Flash Point</b>	135 °C	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
upper flammability limit	No data available	
lower flammability limit	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Specific Gravity</b>	0.918	None known
<b>Water Solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	443 °C	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	5 cSt	None known

<b>Flammable Properties</b>	Not flammable
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available

### Other information

<b>VOC Content (%)</b>	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**

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**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Inhalation</b>	No known hazard by inhalation. Inhalation of mist may cause irritation to the respiratory system.
<b>Eye Contact</b>	May cause slight irritation.
<b>Skin Contact</b>	May cause mild skin irritation.
<b>Ingestion</b>	No known effect. Ingestion may cause stomach discomfort.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Poly[oxy(dimethylsilylene)]	> 40000 mg/kg (rat)	-	>535 mg/L (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**

**Sensitization** Not classified  
**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.  
**STOT - single exposure** Based on available data, the classification criteria are not met  
**STOT - repeated exposure** Based on available data, the classification criteria are not met  
**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)] 9016-00-6		LC50 96 h: > 10000 mg/L static (Lepomis macrochirus) LC50 96 h: > 10000 mg/L static (Oncorhynchus mykiss)		
--	--	--	--	--

**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** 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/NDL** - 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**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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				
<b>NFPA</b>	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards -
<b>HMIS</b>	Health Hazard 1	Flammability 1	Physical Hazard 0	Personal Protection X
<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501			
<b>Issuing Date</b>	11-Apr-2017			
<b>Revision Date</b>	14-Jun-2017			
<b>Revision Note</b>	(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.

ePlex®, eSensor®, GenMark®, GenMark Dx® and XT-8® are trademarks of GenMark Diagnostics, Inc.

**End of Safety Data Sheet**

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

### GHS product identifier

**Product Name** Recon/Elution Component for: ePlex<sup>®</sup> Respiratory Pathogen Panel

### Other means of identification

**Synonyms** Respiratory Pathogen Panel, EA001012, EA001112, EA001212  
EA001048, EA001148, EA001248, KT021854, KT021968, KT021980

### 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** Respiratory Pathogen Panel  
EA001012, EA001112, EA001212  
EA001048, EA001148, EA001248  
KT021854, KT021968, KT021980

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 (CO<sub>2</sub>). 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. 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 26628-22-8	Ceiling: 0.29 mg/m <sup>3</sup> NaN <sub>3</sub> Ceiling: 0.11 ppm Hydrazoic acid vapor	(vacated) S* (vacated) Ceiling: 0.1 ppm HN <sub>3</sub> (vacated) Ceiling: 0.3 mg/m <sup>3</sup> NaN <sub>3</sub>	Ceiling: 0.1 ppm HN <sub>3</sub> Ceiling: 0.3 mg/m <sup>3</sup> NaN <sub>3</sub>

**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**

<b>Physical State</b>	Liquid.	<b>Appearance</b>	Colorless.
<b>Odor</b>	No information available.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	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
Evaporation rate	No data available	None known
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/water	No 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 through 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

<b>Product Information</b>	There is no data available for this product
<b>Inhalation</b>	There is no data available for this product.
<b>Eye Contact</b>	There is no data available for this product.
<b>Skin Contact</b>	There is no data available for this product.
<b>Ingestion</b>	There 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

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** Contains no ingredients above reportable quantities listed as a carcinogen.

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**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** >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 Microorganisms	Daphnia Magna (Water Flea)
Sodium azide 26628-22-8		LC50 96 h: = 0.7 mg/L (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/NDL - 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
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**                      Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date**                      11-Apr-2017

**Revision Date**                      11-Apr-2017

**Revision Note**                      Initial 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.



ePlex®, eSensor®, GenMark®, GenMark Dx® and XT-8® are trademarks of GenMark Diagnostics, Inc.  
**End of Safety Data Sheet**

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

### GHS product identifier

**Product Name** Wash Component for: ePlex® Respiratory Pathogen Panel

### Other means of identification

**Synonyms** Respiratory Pathogen Panel, EA001012, EA001112, EA001212  
EA001048, EA001148, EA001248, KT021854, KT021968, KT021980

### 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**

Respiratory Pathogen Panel,  
EA001012, EA001112, EA001212  
EA001048, EA001148, EA001248  
KT021854, KT021968, KT021980

**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 (CO<sub>2</sub>). 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

<b>Respiratory Protection</b>	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. 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).
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid.	<b>Appearance</b>	Colorless.
<b>Odor</b>	No information available.	<b>Odor Threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	No data available	None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	No data available	None known
<b>Flash Point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
upper flammability limit	No data available	
lower flammability limit	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known
<b>Flammable Properties</b>	Not flammable	
<b>Explosive Properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	
<b><u>Other information</u></b>		
<b>VOC Content (%)</b>	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**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Inhalation</b>	There is no data available for this product.
<b>Eye Contact</b>	There is no data available for this product.
<b>Skin Contact</b>	There is no data available for this product.
<b>Ingestion</b>	There 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**

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no ingredients above reportable quantities listed as a carcinogen.

<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	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:*

<b>LD50 Oral</b>	>5000 mg/kg
<b>LD50 Dermal</b>	>5000 mg/kg
<b>Inhalation dust/mist</b>	>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

<b>Waste Disposal Methods</b>	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.
<b>Contaminated Packaging</b>	Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

<b><u>DOT</u></b>	Not regulated
<b><u>TDG</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b><u>IMDG/IMO</u></b>	Not regulated

### 15. REGULATORY INFORMATION

#### **International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Substances comply or are exempt

#### **Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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**

<b><u>NFPA</u></b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> -
--------------------	------------------------	-----------------------	----------------------	--

<b><u>HMIS</u></b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X
--------------------	------------------------	-----------------------	--------------------------	------------------------------

<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
<b>Issuing Date</b>	11-Apr-2017
<b>Revision Date</b>	11-Apr-2017
<b>Revision Note</b>	Initial 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.

ePlex®, eSensor®, GenMark®, GenMark Dx® and XT-8® are trademarks of GenMark Diagnostics, Inc.

**End of Safety Data Sheet**