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## eSensor Respiratory Viral Panel Reagent Pack Material Safety Data Sheet (MSDS), RM005203

MSDS Prepared on: 09 DEC 2010

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SECTION 1: CHEMICAL IDENTIFICATION

Name: eSensor® Respiratory Viral Panel Reagent Pack

Proprietary: Yes

SECTION 2: HAZARDOUS INGREDIENTS

**Component 1: RVP Enzyme Mix** 

Hazardous Ingredients: CAS #:
Glycerol, 50% 56-81-5

Component 2: RVP PCR Mix

Hazardous Ingredients:CAS #:Tris EDTA (Ethylenediamine Tetra-acetic Acid)60-00-4Magnesium Chloride7786-30-3Ammonium Sulfate7783-20-2

**Component 3: MS2 Internal Control** 

**Hazardous Ingredients:** None

**Component 4: RVP Signal Buffer** 

Hazardous Ingredients:CAS #:Guanidine Hydrochloride50-01-1Ethyl Alcohol64-17-5

**Component 5: Exonuclease** 

Hazardous Ingredients: CAS #:
Glycerol, 50% 56-81-5

**Component 6: Buffer-1** (also known as XT Buffer-1)

**Hazardous Ingredients: None** 

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Component 7: Buffer-2 (also known as XT Buffer-2)

<u>Hazardous Ingredients:</u>
Sodium Perchlorate

CAS #:
7601-89-0

\*Kit components contain unlisted proprietary ingredients which are non-hazardous\*

SECTION 3: HAZARDS IDENTIFICATION

CAUTION! CAUSES IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED. OXIDIZING LIQUIDS.

HEALTH RATING: 1-Slight

FLAMMABILITY RATING: 1 – Slight

REACTIVITY RATING: 1 – Slight

CONTACT RATING: 2 – Moderate

SKIN CONTACT: Causes irritation, redness, and minor pain upon repeated skin exposure.

EYE CONTACT: Causes irritation, redness and pain to the eyes.

INHALATION: Causes mucous membrane and respiratory tract irritation.

INGESTION: Causes gastro-intestinal tract irritation, nausea, vomiting, diarrhea, and CNS depression.

CHRONIC EXPOSURE: Target organs, Skin, Eyes and Kidneys. Material may aggravate pre-existing skin disorders.

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Immediately flush exposed skin with potable water for at least 15 minutes while removing

contaminated clothing. Seek medical attention if irritation develops.

Wash contaminated clothing before use.

EYE CONTACT: Immediately flush the eyes with potable water for at least 15 minutes. Seek

medical attention immediately.

INHALATION: Remove to fresh air. If victim is not breathing, give artificial respiration.

If breathing is difficult, seek medical attention.

INGESTION: Get medical attention immediately. Induce vomiting immediately as directed by a physician. If

vomiting occurs naturally, wash out mouth of the conscious victim.

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SECTION 5: FIRE AND EXPLOSION CONTROL MEASURES

FIRE: Materials are not considered to be a fire hazard. Liquid dries to leave a residue that may support

a fire when combined with combustible materials and reducing agents. Material will emit

hazardous fumes under fire conditions.

EXPLOSION: Not considered to be an explosion hazard.

EXTINGUISHING MEDIA: Water, CO<sub>2</sub>, Dry chemical, Foam.

SPECIAL INFORMATION: Wear a National Institute for Occupational Safety and Health (NIOSH) approved self contained

breathing apparatus with a full face piece operated in the pressure demand mode, along with

the appropriate protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate the area of the leak or spill. Wear the appropriate personal protective equipment as specified in section 8. Contain the spill. Absorb spilled liquids with an inert absorbing material and place in the appropriate waste container. See section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Store frozen components away from sources of ignition and combustible/flammable materials. Protect from physical damage. Handle using recommended protective equipment.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH/OSHA PERMISSIBLE EXPOSURE LIMITS: Not established.

RESPIRATORY PROTECTION: Respiratory protection is not needed with normal use and storage.

VENTILATION: Normal laboratory Heating, Ventilating and Air Conditioning (HVAC) systems are

considered adequate ventilation for normal use.

PROTECTIVE GLOVES: Protective gloves such as nitrile or latex.

EYE PROTECTION: American National Safety Institute (ANSI) approved safety glasses. If splashing or

spraying liquids are anticipated, ANSI approved chemical splash goggles are

recommended.

OTHER PROTECTIVE

EQUIPMENT: An emergency eyewash and safety shower should be available.

HYGIENIC PRACTICES: Wash hands thoroughly with soap and water after handling materials. Launder

contaminated clothing prior to re-use.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**COMPONENT 1: RVP Enzyme Mix** 

**ODOR: Odorless** 

APPEARANCE: Clear viscous liquid

pH: 9.0 M.P: <-20°C

DENSITY: 3.1 g/ml

**COMPONENT 3: MS2 Internal Control** 

**ODOR: Odorless** 

APPEARANCE: Clear liquid

pH: 7.0-8.0 M.P: N/A

**DENSITY: Unknown** 

**COMPONENT 5**: Exonuclease

**ODOR: Odorless** 

APPEARANCE: Clear viscous liquid

pH: 5.5 to 8.0 M.P: <-20°C

DENSITY: 3.1 g/ml

COMPONENT 7: Buffer-2 (also known as XT Buffer-2)

**ODOR: Odorless** 

APPEARANCE: Clear liquid

pH: Unknown M.P: <-20°C

DENSITY: 1.4 g/ml

**COMPONENT 2: RVP PCR Mix** 

**ODOR: Odorless** 

APPEARANCE: Clear viscous liquid

pH: 8.7 M.P: <-20°C

DENSITY: 1.0 g/ml

**COMPONENT 4: RVP Signal Buffer** 

**ODOR: Pungent** 

APPEARANCE: Clear liquid

pH: 8.7 M.P: >-20°C

DENSITY: 1.0g/ml

**COMPONENT 6: Buffer-1** (also known as XT Buffer-1)

**ODOR: Odorless** 

APPEARANCE: Amber liquid

pH: 7.1 M.P: <-20°C

**DENSITY: Unknown** 

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use and storage.

INCOMPATIBILITIES: Strong acids, reducing agents, organic materials, finely powdered materials, Furan

2-Peroxycarboxylic acid.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Chlorine gas,

Hydrochloric acid vapor.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDTIONS TO AVOID: Heat, fire, incompatibles.

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SECTION 11:	TOXICOLOGICAL INFORMATION
Data not available	
SECTION 12:	ECOLOGICAL INFORMATION
Data not available	
SECTION 13:	DISPOSAL CONSIDERATIONS
waste streams. Do and disposal service	nould be disposed of as hazardous waste. Waste should be segregated with compatible not dispose of in municipal waste. Contact a licensed hazardous waste transportation se to safely and legally dispose of this material. Waste must be classified and disposed with all Federal, State and local environmental regulations.
SECTION 14:	TRANSPORTATION INFORMATION
Not regulated. Th handling precaution	s product does not contain hazardous compounds in quantities that require special ons.
SECTION 15:	REGULATORY INFORMATION

SECTION 16: OTHER INFORMATION

Data not available.

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