

1. Chemical and Company Identification

Product Name: "DIY" Lateral Flow Dipstick Assay Kit

Product Use: Laboratory Use

Manufacturer/Supplier: CytoDiagnostics Inc., 919 Fraser Drive, Unit 11, Burlington, Ontario, Canada, L7L 4X8

Phone: (866) 344-3954

Web: <http://www.cytodiagnosics.com>Information and Support: customer_service@cytodiagnosics.com**2. Hazards Identification****Classification of the substance or mixture:**Flammable solids (Category 1), H228
Short-term (acute) aquatic hazard (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label Elements and Precautionary Statements:

Pictogram



Signal Word

Danger

Hazard statement(s)

H228

Flammable solid.

H402

Harmful to aquatic life.

Precautionary statement(s)

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P273

Avoid release to the environment.

P280

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

P370 + P378

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P501

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

Hazards not otherwise classified:

None

3. Composition/Information on Ingredients

This product contains: Lateral flow assay dipsticks, 15mL of sample dilution buffer and 1.5mL of lateral flow buffer

Components:

Component 1: Octylphenol polyethoxyethanol, $\geq 0.1-1\%$ (w/w), CAS# 9036-19-5

Component 2: Immunoglobulin, $<0.02\%$ (w/w), CAS# 9007-83-4

Component 3: Colloidal Gold, $<0.02\%$ (w/w), CAS# 7440-57-5

Component 4: Sample Dilution Buffer – Phosphate Buffered Saline (non-hazardous)

Component 5: Lateral Flow Running Buffer - Proprietary components (trade secret per 29 CFR 1910. 1200 (i) (1)) (non-hazardous)

4. First Aid Measures

In case of skin contact: In case of contact with skin, immediately remove contaminated clothing and wash extensively with soap and water and seek medical advice if symptoms occur.

In case of ingestion: If swallowed and person is conscious wash mouth with water, seek medical advice immediately.

In case of eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If case of inhalation: In case of accident by inhalation, remove to fresh air. If breathing becomes difficult seek medical advice. If not breathing, give artificial respiration.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

Immediate medical attention and special treatment needed:

No data available

5. Fire Fighting Measures**Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the substance or mixture:

Carbon oxides
Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment and precautions for fire-fighters:

Wear self-contained breathing apparatus if necessary.

6. Accidental Release Measures**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid aerosols or dust formation. Avoid breathing vapours, mist or gas.

Methods and materials for containment and cleaning up:

Keep in a suitable closed container for disposal.
Do not allow product to enter drains. For disposal see section 13.

7. Handling and Storage**Precautions for safe handling:**

Avoid formation of aerosols and dust.
Provide adequate exhaust ventilation at places where dust and aerosols may form.

Conditions for safe storage: Tightly closed. Dry.

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Recommended storage temperature 2-8°C

8. Exposure Controls/Personal Protection

Appropriate engineering controls: Standard industrial hygiene practice.

Body protection: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: Respiratory protection not required. In case of insufficient ventilation or for nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respiratory cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

9. Physical and Chemical Properties

Appearance :	Liquid Solutions
Physical state:	Solid White Membrane and Clear, Colourless
Odour:	Odourless
Odour threshold:	No data available
pH:	7-8
Melting Point/Freezing point:	No data available
Initial boiling point/boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid; gas) :	No data available
Lower flammable/explosive limit:	No data available
Upper flammable/explosive limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility:	No data available
Partition coefficient – n-octanol/water:	No data available
Auto-ignition temperature:	No data available

Decomposition temperature:	No data available
	No data available
Viscosity:	

10. Stability and Reactivity**Reactivity:** No data available**Chemical stability:** Stable under recommended storage conditions**Possibility of hazardous reactions:** no data available**Conditions to avoid:** Temperatures below 0°C, exposure to sunlight**Materials to avoid:**

Risk of ignition or formation of inflammable gases or vapours with:

Oxidizing agents

Bases

Strong acids

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. – Oxides of phosphorus, Sodium oxides, Hydrogen chloride gas, Potassium oxides, carbon oxides

Other decomposition products – no data available

In the event of fire: see section 5

11. Toxicological Information**Acute Toxicity****Oral LD50**

No data available

Inhalation LD50

No data available

Dermal LD50

No data available

Other information on acute toxicity

No data available

Skin: No data available - May be harmful in contact with skin.**Ingestion:** No data available - May be harmful if ingested.**Eyes:** No data available - May be harmful in contact with eyes.**Inhalation:** No data available - May be harmful if inhaled.**Germ Cell Mutagenicity:** No data available**Carcinogenicity****IARC:**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

Additional Information

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Components**Octylphenol polyethoxyethanol****Acute toxicity**

LD50 Oral - Rat - 1,900 - 5,000 mg/kg

Remarks: (External MSDS)

Symptoms: Vomiting, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract., Risk of aspiration upon vomiting., Aspiration may cause pulmonary edema and pneumonitis.

Inhalation: No data available

LD50 Dermal - Rabbit - > 3,000 mg/kg

Remarks: (External MSDS)

Skin corrosion/irritation

Skin - Rabbit

Result: irritating - 4 h

(OECD Test Guideline 404)

Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Risk of serious damage to eyes.

(Draize Test)

Remarks: Risk of corneal clouding.

Respiratory or skin sensitization

Sensitisation test: - Human

Result: negative

Remarks: (External MSDS)

Patch test on human volunteers did not demonstrate sensitization properties.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

Ingestion of excessive amounts by pregnant animals resulted in maternal and fetal toxicity. Did not show teratogenic effects in animal experiments.

Specific target organ toxicity - single exposure

Acute oral toxicity - Vomiting, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract., Risk of aspiration upon vomiting., Aspiration may cause pulmonary edema and pneumonitis.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

12. Ecological Information

No data available

13. Disposal Considerations *Disposal:* Consult a licensed waste disposal specialist for proper destruction. Observe all local, state and federal regulations.

14. Transport Information

Hazard class: Not regulated for transportation.

Product identification number: Not determined

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the safety data sheet contains all of the information required by those regulations.

16. Other Information

This product is for laboratory research purposes, not for diagnostic or therapeutic use in humans or animals.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Users should make independent decisions regarding completeness of the information based on all sources available. Cytodiagnosics Inc. shall not be held liable for any damage resulting from handling or contact with the above product.