

## Section 1 – Product and Company Identification

### Manufacturer Information

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### Product Information

Product Name: MicroVue Creatinine Assay EIA kit (Catalog #: 8009)

Intended Use: An enzyme immunoassay for the quantitation of Creatinine in urine. This assay is for Research Use Only and not for diagnostic procedures.



Components: Creatinine Standards A→C, Low Controls, High Controls, Color Reagent, Stop Solution and Microassay Plate.

## Section 2 – Hazards Identification

### Emergency Overview

Component	OSHA Hazards	Target Organs	GHS Classification
<b>Stop Solution</b> (4% Sodium Hydroxide)	Corrosive	Eyes and Skin	Skin Corrosion (Category 1A) Eye Damage (Category 1)
<b>Color Reagent</b> (0.14% Picric Acid)	Sensitizer	Skin	Skin Sensitization (Category 1)

### GHS Classification and Label Elements

Component	Pictogram	Hazard Statements	Precautionary Statements
<b>Stop Solution</b> (4% Sodium Hydroxide)	 <b>Danger</b>	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.	P264 Wash hands thoroughly after handling. P280 Wear protective gloves and safety glasses. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Color Reagent</b> (0.14% Picric Acid)	 <b>Warning</b>	H317 May cause an allergic skin reaction.	P264 Wash hands thoroughly after handling. P280 Wear protective gloves and safety glasses. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Supplemental Hazard Statements</b>		1. Follow Universal Precautions when working with this kit. 2. Sodium Azide is used as a preservative (<0.1%) in various components. Avoid disposal of this material down sanitary or industrial plumbing systems. 3. Picric acid is explosive when dry.	

### Section 3 – Composition / Information on Ingredients

Component	Chemical Name	CAS #	EINECS #	Conc. (%)	Component Volume	Chemical Classification
Stop Solution (4960)	Sodium Hydroxide	1310-73-2	215-185-5	4	15 mL	Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 3; H290, H314, H318, H402
Color Reagent (4224)	Picric Acid	88-89-1	201-865-9	0.14	21 mL (3 x 7 mL)	Expl. 1.1; Acute Tox.3; Skin Sens. 1; H201, H301+H311+H331, H317

### Section 4 – First Aid Measures

**General Advice**

Move out of exposure area. Consult a physician. Show this safety data sheet to the doctor in attendance, as necessary.

- If inhaled:* Move the person to fresh air and support breathing as required.
- In case of skin contact:* Wash affected area with soap and water. Seek medical advice if irritation develops.
- In case of eye contact:* Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.
- If swallowed:* Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical advice if irritation develops.
- Stop Solution (4960): Do not induce vomiting.
- Note to Physicians:* Treat symptomatically.

### Section 5 – Fire Fighting Measures

**General Advice**

Only individuals properly trained and issued appropriate personal protective equipment should respond and attempt to extinguish a fire.

- Extinguishing Media:* For small fires, use dry chemical, water spray, carbon dioxide or alcohol-resistant foam.
- General Fire Hazards:* The components within this kit will not significantly contribute to the intensity of a fire.
- Hazardous Combustion Products:* No data available.
- Fire Fighting Equipment:* Firefighters should wear full protective gear when responding to fires.

### Section 6 – Accidental Release Measures

**General Advice**

Only individuals properly trained and issued appropriate personal protective equipment should respond and attempt to clean up a spill or release. Large spills of the solutions, controls or reagents contained within this kit are unlikely.

- Personal Precautions:* Use personal protective equipment, including protective gloves and safety glasses when cleaning up small spills of the solutions, controls or reagents within this kit. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Keep all unnecessary personnel away from the spill area.

## Section 6 – Accidental Release Measures (cont'd)

<i>Materials and Methods for Clean-Up:</i>	Soak up with inert absorbent material (e.g., paper towel, etc.). Thoroughly wash the area with soap and water after a spill or release clean-up.
<i>Recovery and Neutralization:</i>	Collect spilled material and clean-up supplies and place in sealed container for disposal. Refer to Section 13 for disposal guidance.
<i>Environmental Precautions:</i>	Contain spill to prevent migration to drains, sewers or open water sources. Discharge into the environment must be avoided.

## Section 7 – Handling and Storage

**Specific Use:** For Research Use Only. Not for use by the general public.

### Precautions for Safe Handling

As with all chemical and biological substances, avoid getting the components within this kit ON YOU or IN YOU. Wash exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. This kit should be handled only by qualified clinical or laboratory employees trained on the use of this kit and who are familiar with the potential hazards. Universal Precautions should be followed when handling and working with this kit. Keep out of reach of the general public.

**Conditions for Safe Storage:** To maintain efficacy, store according to the kit specific Package Insert instructions.

**Incompatibilities** To maintain efficacy, store according to the kit specific Package Insert instructions.

## Section 8 – Exposure Controls and Personal Protection

**Exposure Limits:** No data available for the specific components within this kit.

### Exposure Controls:

**Engineering Measures** Use with adequate ventilation

#### Personal Protective Equipment

*Respiratory Protection:* None needed under normal conditions of use.

*Hand Protection:* Handle with appropriately rated chemical resistant gloves (nitrile or equivalent). Gloves should be inspected prior to use. Use proper glove technique to remove gloves to avoid contact with skin. Wash hands after handling the components within this kit.

*Eye Protection:* Wear safety glasses with side shields or goggles to prevent eye contact.

*Skin and Body Protection:* Use body protection appropriate for the task. A laboratory coat is recommended.

*Hygiene Measures:* Wash hands before and after use and at the end of the workday.

### Environmental Exposure Controls

No special environmental controls are required.

### Section 9 – Physical and Chemical Properties

Characteristic	Stop Solution (4960)	Substrate Buffer (4224)
Boiling Point (°C)	No data available	No data available
Melting Point (°C)	No data available	No data available
Specific Gravity (H <sub>2</sub> O = 1)	No data available	No data available
Vapor Pressure (mm Hg)	No data available	No data available
Vapor Density (Air = 1)	No data available	No data available
Evaporation Rate (Ether = 1)	No data available	No data available
pH	< 13	No data available
Solubility in Water	Soluble	Soluble
Appearance and Odor	Clear liquid, mild odor	Clear to yellow liquid, odorless

### Section 10 – Stability and Reactivity

Characteristic	Stop Solution (4960)	Substrate Buffer (4224)
Component Stability	Stable	Stable
Hazard Reaction Potential	No data available	No data available
Conditions to Avoid	No data available	Picric acid forms salts with many metals some of which are rather sensitive to heat, friction, or impact (e.g., lead, iron, zinc, copper, etc.) and should be considered dangerously sensitive.
Materials to Avoid	Acids, organic materials, chlorinated solvents, aluminum, phosphorus	Strong oxidizing agents
Hazardous Decomposition Products	No data available	No data available

### Section 11 – Toxicological Information

#### Acute Toxicity

**Component Analysis – LD<sub>50</sub> / LC<sub>50</sub> / Irritation** (No data available for specific kit components)

Chemical Name	CAS #	RTECS #	Information
Sodium Hydroxide	1310-73-2	WB490000	Oral LD <sub>50</sub> No data available Inhalation LC <sub>50</sub> No data available Dermal LD <sub>50</sub> No data available
Picric Acid	88-89-1	TJ7875000	Oral LD <sub>50</sub> No data available Inhalation LC <sub>50</sub> No data available Dermal LD <sub>50</sub> No data available

## Section 11 – Toxicological Information (cont'd)

**Potential Health Effects: Stop Solution (4960) and Color Reagent (4224)**

<i>Skin Corrosion/ Irritation:</i>	No data available	<i>Inhalation:</i>	May cause respiratory tract irritation.
<i>Serious Eye Damage / Irritation:</i>	No data available	<i>Skin:</i>	May cause skin irritation upon contact.
<i>Respiratory or Skin Sensitization:</i>	No data available	<i>Eyes:</i>	May cause serious eye irritation.
<i>Generative Cell Mutagenicity:</i>	No data available	<i>Ingestion:</i>	May be harmful if swallowed.

**Carcinogenicity**

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

**Reproductive Toxicity** No data available

**Teratogenicity** No data available

**Specified Target Organ General Toxicity (GHS)**

*Single Exposure (GHS):* No data available      *Repeated Exposure (GHS):* No data available

**Aspiration Respiratory Organs Hazard**

None anticipated under product use conditions.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated for the components contained within this kit.

**Synergistic Effects** No data available

**Additional Information**

Stop Solution (4960): Sodium hydroxide is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Color Reagent (4224): Stomach Irregularities – Based on human evidence (Picric Acid)

## Section 12 – Ecological Information

<b>Ecotoxicity</b>	No data available	<b>Mobility in Soil</b>	No data available
<b>Persistence / Degradability</b>	No data available	<b>PBT and vPvB Assessment</b>	No data available
<b>Bioaccumulation</b>	No data available		
<b>Other Adverse Effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		

## Section 13 – Disposal Considerations

**Waste Disposal Instructions**

Utilize appropriate personal protective equipment and spill control when handling wastes generated from using this kit. Do not discharge any of the solutions, reagents or controls into drains, water courses or onto the ground.

### Section 13 – Disposal Considerations (cont'd)

**Disposal of Product and Contaminated Packaging**

Dispose of waste materials, unused components and contaminated packaging in compliance with country (e.g., Canada, EU, Japan, etc.), federal, state and local regulations. If unsure of the applicable regulatory requirements, contact a licensed professional waste disposal service to dispose of this material.

### Section 14 – Transportation Information

**U.S. Department of Transportation (DOT)**

This kit is not regulated for transport.

**International Air Transportation (IATA)**

This kit is not regulated for transport.

**International Maritime Dangerous Goods (IMDG)**

This kit is not regulated for transport.

### Section 15 – Regulatory Information

**Regulatory Information**
**U.S. Federal Regulations**

**OSHA Hazards**

Stop Solution (4960):	Corrosive
Color Reagent (4224):	Sensitizer

**SARA 302** The following chemicals are subject to reporting levels established by SARA Title III, Section 302:  
 No chemicals in this kit are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** The following chemicals are subject to reporting levels established by SARA Title III, Section 313:  
 The components of this kit do not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312**

Sodium Hydroxide	CAS#: 1310-73-2	Acute Health Hazard
Picric Acid	CAS#: 88-89-1	Acute Health Hazard, Chronic Health Hazard

**State Regulations**

The following chemicals appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Sodium Hydroxide	1310-73-2	Yes	Yes	Yes	Yes	Yes	Yes
Picric Acid	88-89-1	Yes	Yes	Yes	Yes	Yes	Yes

**California Prop 65:** This kit does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**Canadian - WHMIS IDL**

Chemical Name	CAS #	Minimum Concentration
Sodium Hydroxide	1310-73-2	1%
Picric Acid	88-89-1	1%

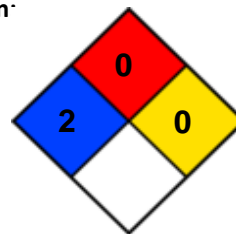
**Additional Regulatory Information**

**Safety, Health and Environmental regulations/legislation specific for the mixture:** No data available

**Chemical Safety Assessment:** Not completed for the components contained within this kit.

## Section 15 – Regulatory Information (cont'd)

**HMIS Kit Classification:**

**NFPA Kit Classification:**


## Section 16 – Other Information

**Text of H-code(s) mentioned in Section 3:**

Acute Tox.	Acute toxicity	H201	Explosive; mass explosion hazard
Expl.	Explosives	H290	May be corrosive to metals.
Skin Sens.	Skin sensitization	H314	Causes severe skin burns and eye damage.
Eye Dam.	Serious eye damage	H317	May cause an allergic skin reaction.
Met. Corr.	Corrosive to metals	H318	Causes serious eye damage.
Skin Corr.	Skin corrosion	H402	Harmful to aquatic life.
Aquatic Acute	Acute aquatic toxicity	H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.

**PREPARED BY:** Quidel Corporation  
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**SUPERCEDES:** July 8, 2009

**REVISIONS:** Updated to GHS format.

The information above is provided in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability, fitness for a particular purpose or of any other type, expressed or implied, with respect to products described or data or information provided, and we assume no liability resulting from the use of such products, data or information. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall Quidel be liable for any claims, losses, or damages of any individual or for lost profits or any special, indirect, incidental, consequential or exemplary damages of any kind, howsoever arising, even if Quidel has been advised of the possibility of such damages.

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