

**SDS 1**  
**Safety Data Sheet**

**Section 1 Product and Company Information**  
Product Name: First Reagent  
Product Number: 485201-D  
Recommended use: Used to detect arsenic in water  
Restricted use: Not applicable  
Mfg. name: Industrial Test Systems, Inc.  
Mfg. address: 1875 Langston Street, Rock Hill, SC  
Emergency Telephone (poison control): 1-800-222-1222  
Mfg. Telephone: 1-803-329-9712

**Section 2 Hazard Identification**  
Hazard(s): Not hazardous: food grade tartaric acid, less than 1% of other ingredients.  
Required labeling: Not applicable

**Section 3 Composition/Information on Ingredients**

Reagent	CAS	%	Hazard
L-Tartaric Acid	87-69-4	98.9	Food grade, N/A
Potassium Permanganate	7722-64-7	<1%	N/A

**Section 4 First-Aid Measures**  
Contact Area First-aid  
Eyes Flush with large amounts of cold water for 15 minutes. Call a physician immediately.  
Skin Wash with soap and water for 15 minutes. Remove contaminated clothing.  
Ingestion If swallowed, wash out mouth with water. Do not induce vomiting. Call a physician.  
Inhalation If inhaled, remove person to fresh air source. Call a physician.  
Most likely effect Irritation of skin and nose.

**Section 5 Fire Fighting Measures**  
Extinguishing media: Use that which is appropriate for the surrounding fire.  
Explosion Hazard: Not flammable or combustible.  
Flash Point: N/A  
Special fire fighting procedures: N/A

**Section 6 Accidental Release Measures**  
Sweep up and dispose in normal trash. Do not breathe dust. Wash hands.

**Section 7 Handling and Storage**  
Use standard hygienic practices (no eating, drinking, or smoking) around the product. Wash hands after use. Keep away from children and pets. Keep container tightly closed. Use in well ventilated area. Handle carefully to limit dust.

**Section 8 Exposures Controls/Personal Protection**  
OSHA Permissible Limits: No data  
Engineering controls: Adequate ventilation. Use dust mask if there is a large spill.  
Personal Protective Equipment (PPE): Use PPE appropriate for the surroundings.  
Other: Use gloves to prevent contact irritation. Use eye protection to prevent droplets from entering the eye. Ensure an eyewash station is available.

**Section 9 Physical and Chemical Properties**  
Appearance: White, granular free-flowing solid  
Melting/Freezing point: N/A  
Decomposition temperature: No data  
Upper/Lower flammability limit: No data  
Solubility: Water soluble Viscosity: N/A Odor: odorless  
Initial boiling point/range: N/A  
Vapor Pressure: Not volatile  
Flash point: No data Odor threshold: N/A  
Evaporation rate: N/A Vapor density: N/A  
Flammability: flammable pH: Acidic  
Partition coefficient: N/A Relative density: No data  
Auto-ignition temperature: No data

**Section 10 Stability and Reactivity**  
Product is stable under normal conditions. Hazardous polymerization will not occur. Reacts with zinc, silver, and/or aluminum in the presence of water or moisture to rapidly release explosive hydrogen gas.

**Section 11 Toxicological Information**  
No data. Do not breathe dust.

**Section 12 Ecological Information**  
Data not available.


**Section 13 Disposal Considerations**  
Dispose in normal trash. Do not breathe dust. Never mix dry first reagent with dry second reagent.

**Section 14 Transport Considerations**  
Not applicable - material is not hazardous


**Section 15 Regulatory Information**  
The above information is believed to be correct but does not purport to be all-inclusive and shall be used ONLY as a guide. Keep away from children and pets. Store in a dry, cool place. Keep container tightly closed.

**Section 16 Other Information**  
Preparer: H. R.  
Date Prepared: 5-3-17  
Supersedes Revision: 10-10-16  
Disclaimer: The information in this Safety Data Sheet is accurate to the best of our knowledge. It is designed only as a guidance for safe use, handling, storage, and disposal. This information is not considered to be a warranty or a quality specification. This company shall not be held liable for any damage resulting from handling or from contact with the above product.


**Reaction Bottle**




**Arsenic Test Strips**




**Reagent 1 Powder Pillows**




**Reagent 2 Powder Pillows**




**White Turret Caps**



**Yellow Mixing Caps**



**Bag For Used Test Strips**



**SDS 2**  
**Safety Data Sheet**

**Section 1 Product and Company Information**  
Product Name: Second Reagent  
Product Number: 485201-E  
Recommended use: Used to detect arsenic in water  
Restricted use: Not applicable  
Mfg. name: Industrial Test Systems, Inc.  
Mfg. address: 1875 Langston Street, Rock Hill, SC  
Emergency Telephone (poison control): 1-800-222-1222  
Mfg. Telephone: 1-803-329-9712

**Section 2 Hazard Identification**  
Hazard(s): TOXIC: May be fatal if swallowed. IRRITANT: Irritation to nose and throat.  
Required labeling: Not applicable

**Section 3 Composition/Information on Ingredients**

Reagent	CAS	%	Hazard
Zinc	7440-66-6	>99	Toxic, Irritant
Other Metals	Trade Secret	<1%	Irritant

**Section 4 First-Aid Measures**  
Contact Area First-aid  
Eyes Flush with large amounts of cold water for 15 minutes. Call a physician immediately.  
Skin Wash with soap and water for 15 minutes. Remove contaminated clothing.  
Ingestion If swallowed, wash out mouth with water. If a large amount is swallowed, call a physician. Antidote: Calcium disodium edetate/dextrose, intravenous; Calcium disodium edetate/procarine, intramuscular.  
Inhalation If inhaled, remove person to fresh air source. Call a physician.  
Most likely effect Irritation of skin and nose.

**Section 5 Fire Fighting Measures**  
Extinguishing media: Dry chemical, sand, lime, soda ash.  
Explosion Hazard: Very fine dust may form explosive mixtures with air.  
Flash Point: N/A  
Special fire fighting procedures: Do not use water or foam

**Section 6 Accidental Release Measures**  
Do not touch spilled material. Avoid heat, flames, sparks, and other sources of ignition. Remove sources of ignition. Collect material into suitable, loosely covered container for disposal. Do not get water directly on material.

**Section 7 Handling and Storage**  
Use standard hygienic practices (no eating, drinking, or smoking) around the product. Wash hands after use. Keep away from children and pets. Keep container tightly closed. Use in well ventilated area. Handle carefully to limit dust. Store in a cool, dry place.

**Section 8 Exposures Controls/Personal Protection**  
OSHA Permissible Limits: N/A  
Engineering controls: Adequate ventilation. Use dust mask if there is a large spill.  
Personal Protective Equipment (PPE): Use PPE appropriate for the surroundings.  
Other: Use gloves to prevent contact irritation. Use eye protection to prevent droplets from entering the eye. Ensure an eyewash station is available.

**Section 9 Physical and Chemical Properties**  
Appearance: Grayish, powdery solid  
Melting/Freezing point: 420°C/N/A  
Decomposition temperature: No data  
Upper/Lower flammability limit: No data  
Solubility: reacts Viscosity: N/A Odor: odorless  
Initial boiling point/range: N/A  
Vapor Pressure: 1 mmHg @ 487°C  
Flash point: No data  
Odor threshold: N/A Evaporation rate: N/A  
Vapor density: N/A Flammability: flammable pH: N/A  
Partition coefficient: N/A Relative density: 7.14  
Auto-ignition temperature: No data

**Section 10 Stability and Reactivity**  
Product is stable under normal conditions. Hazardous polymerization will not occur. Finely divided powder may react with water. Keep away from acids, bases, metals, oxidizers, reducing agents, combustible materials.

**Section 11 Toxicological Information**  
Eye Contact: Dust may cause mechanical irritation or injury to the surface of the eye, with discomfort, reddening, and tearing. Direct contact may cause serious corneal burns.  
Skin Contact: Dust may cause mechanical irritation and mild dermatitis.  
Ingestion: Large oral doses may cause gastrointestinal distress with stomach cramps, dehydration, electrolyte imbalance, abdominal pain, nausea, vomiting, hematemesis, diarrhea, lethargy, immune system effects, fever, dizziness, tightness in the throat, shock, collapse, renal failure, and death.

**Section 12 Ecological Information**  
Data not available.

**Section 13 Disposal Considerations**  
Dispose in normal trash. Do not breathe dust. Never mix dry first reagent with dry second reagent.

**Section 14 Transport Considerations**  
Not applicable - packaged as part of a reagent set.

**Section 15 Regulatory Information**  
The above information is believed to be correct but does not purport to be all-inclusive and shall be used ONLY as a guide. Keep away from children and pets. Store in a dry, cool place. Keep container tightly closed.

**Section 16 Other Information**  
Preparer: H. R.  
Date Prepared: 8-3-22  
Supersedes Revision: 9-21-16  
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**SDS 3**  
**Safety Data Sheet**

**Section 1 Product and Company Information**  
Product Name: Arsenic Quick Strip  
Product Number: 485201-G  
Recommended use: Used to detect arsenic in water  
Restricted use: Not applicable  
Mfg. name: Industrial Test Systems, Inc.  
Mfg. address: 1875 Langston Street, Rock Hill, SC  
Emergency Telephone (poison control): 1-800-222-1222  
Mfg. Telephone: 1-803-329-9712

**Section 2 Hazard Identification**  
Hazard(s): TOXIC: May be fatal if swallowed. IRRITANT: Irritation to nose and throat.  
Required labeling: N/A

**Section 3 Composition/Information on Ingredients**

Reagent	CAS	%	Hazard
Mercuric Bromide	5789-47-1	100	Acute Toxic, Irritant
Other Metals	Trade Secret	<1%	Irritant

**Section 4 First-Aid Measures**  
Contact Area First-aid  
Eyes Flush with copious amounts of cold water for 5 minutes.  
Skin Rinse with large amounts of water for 2 minutes. Remove contaminated clothing.  
Ingestion Rinse mouth with water. As a precaution, call a physician or Poison Control.  
Inhalation Evacuate to fresh air. If breathing is difficult, give oxygen and seek medical advice.  
Most likely effect Irritation

**Section 5 Fire Fighting Measures**  
Extinguishing media: Use that which is appropriate for the surrounding fire.  
Explosion Hazard: None found  
Flash Point: N/A  
Special fire fighting procedures: N/A

**Section 6 Accidental Release Measures**  
Sweep up strips and put into a plastic bag labeled "Used Test Strips". Dispose of used strips per local environmental and regulatory requirements. Wash hands after use.

**Section 7 Handling and Storage**  
Use standard hygienic practices (no eating, drinking, or smoking) around the product. Wash hands after use. Keep away from children and pets. Keep container tightly closed.

**Section 8 Exposures Controls/Personal Protection**  
OSHA Permissible Limits: N/A  
Engineering controls: N/A  
Personal Protective Equipment (PPE): Use PPE appropriate for the surroundings.  
Other: Use gloves to prevent contact irritation. Use eye protection to prevent droplets from entering the eye. Ensure an eyewash station is available.

**Section 9 Physical and Chemical Properties**  
Appearance: Off-white pad on plastic handle  
Melting/Freezing point: N/A  
Decomposition temperature: No data  
Upper/Lower flammability limit: No data  
Solubility: N/A Viscosity: N/A Odor: odorless  
Initial boiling point/range: N/A Vapor Pressure: N/A  
Flash point: No data Odor threshold: N/A  
Evaporation rate: N/A Vapor density: N/A  
Flammability: flammable  
pH: N/A Partition coefficient: N/A Relative density: N/A  
Auto-ignition temperature: No data

**Section 10 Stability and Reactivity**  
Product is stable. Hazardous polymerization will not occur. Firefighters should wear full protective clothing and self-contained breathing apparatus when fighting fires involving plastic and PVC materials.

**Section 11 Toxicological Information**  
Each strip contains about 1mg Mercuric Bromide so toxicological effects are minimal because of the low exposure. Material, however, is toxic and should be handled carefully to minimize exposure. Place all used test strips into a plastic bag labeled "Used Test Strips". Dispose of used strips per local environmental and regulatory requirements. Wash hands after use.

**Section 12 Ecological Information**  
Data not available.

**Section 13 Disposal Considerations**  
Dispose of the test strips according to regulatory requirements.

**Section 14 Transport Considerations**  
Not applicable - the strips are not hazardous

**Section 15 Regulatory Information**  
This strip is considered an article under OSHA rules (CFR29, 1910.1200): "Article means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or size, (ii) which has certain physical and chemical characteristics, (iii) which has certain functions dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees".  
A Safety Data Sheet (SDS) is not required for articles. This SDS is provided as a courtesy.

**Section 16 Other Information**  
Preparer: H. R.  
Date Prepared: 5-3-17  
Supersedes Revision: 9-21-16  
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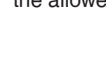
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Date Prepared: 5-3-17  
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**ABOUT KIT #485201:**

This test detects soluble inorganic arsenic (As<sup>+3</sup> and As<sup>+5</sup>)

This arsenic test kit provides a safe, simple, and reliable way to test for arsenic from 5 to 300ppb (µg/L) (up to 1000ppb (µg/L) when using 1:5 Dilution Method). Follow the instructions carefully to get reliable results. All components are supplied in the kit except for a timer and thermometer. The color chart was standardized at 24°C / 75°F. For reference purposes, record the temperature at which the sample was run. Use all reagents and test strips within the allowed shelf life as marked on each container.



**SCAN FOR INFO**

**Kit Components:**

- 2 reaction bottles, clear PVC, with lines
- 2 white caps, with white turret, for holding test strip
- 50 powder pillows of First Reagent (2 bags of 50 powder pillows in 485201-100)
- 50 powder pillows of Second Reagent (2 bags of 50 powder pillows in 485201-100)
- 1 bottle of arsenic strips (#485200) with color chart label - **Caution:** Each test strip pad contains about 1 mg mercuric bromide (HgBr<sub>2</sub>) (2 bottles of arsenic strips in 485201-100)
- This instruction booklet with SDS
- 2 yellow caps for mixing
- Plastic case for components

**US Patent #11346825; Bangladesh Patent # 1006667; Patent Pending - Europe and India**

**INTERFERENCES:** This test tolerates up to 4mg/L hydrogen sulfide without interference. No interference was found for this test kit for antimony up to 0.5mg/L. No interference from Iron or Sulfate was found. It is recommended that the water sample be 15°C - 30°C / 59°F - 86°F.

Sample #	1	2	3	4	5
Location					
Date					
Result					

**33**

**Ascel**™

**Arsenic 74.922**

**World's Fastest Analytical Field Kit**

**Part Numbers: 485201 & 485201-100**

**Tests Arsenic (As<sup>+3</sup>/As<sup>+5</sup>) from 0-1000 ppb (µg/L)**

**US Patent # 11346825;**

**Bangladesh Patent #1006667;**

**Patent Pending - Europe & India**



**HEADQUARTERS**

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**Revision: 10/20/22**

## Troubleshooting

Problem	Possible Causes/Solutions
Low or no color development on reaction pad after 7 minute reaction time.	<ol style="list-style-type: none"> <li>1. Temperature of the sample may be below 15°C/59°F. If the temperature is between 5°C and 15°C, increase reaction time to 10 minutes.</li> <li>2. The strip may not have been inserted correctly. Run test again and verify strip pad is exposed to arsine gas.</li> <li>3. The reaction cap may have been loose. Run test again.</li> <li>4. The sample may contain organic arsenic or the arsenic is bound. Kit only tests for soluble inorganic arsenic.</li> <li>5. pH of the sample during 7 minute incubation is incorrect. pH should be between 1.5 to 1.7 at step 5, page 4.</li> </ol>
Only part of the strip reaction pad has color.	<ol style="list-style-type: none"> <li>1. Strip pad may not be facing proper direction. Run test again.</li> <li>2. Reaction cap may have leaked. Run test again.</li> </ol>
Little or no hydrogen gas bubbles occur after Second Reagent addition.	<ol style="list-style-type: none"> <li>1. Addition of First Reagent could have been omitted, run test again.</li> <li>2. Excess oil and grease will hinder or suppress rate of gassing, dilute sample and run test again.</li> <li>3. Strong acid may be present in sample as a preservative or from sample source because of where and how the sample was collected. Strong acids interfere with test.</li> <li>4. pH of water sample is too alkali. For proper hydrogen gas reaction the water sample with both reagents added should be around a pH of 1.5 to 1.7 at step 5.</li> </ol>
Color on the pad suggests more arsenic is present than is expected.	<ol style="list-style-type: none"> <li>1. Possible interference, check for sulfide.</li> <li>2. Dilute sample 1:5 and run test again.</li> </ol>
Interference due to elevated sulfide.	<ol style="list-style-type: none"> <li>1. Allow sample to sit at room temperature, exposed to air for up to 8 hours (typically 50% of the hydrogen sulfide gas is dissipated every eight hours).</li> <li>2. Run test again, using double the amount of First Reagent.</li> </ol>
Color on the pad is darker than the highest concentration on the chart.	Dilute the sample with arsenic/sulfide free water, run test again.
Color on the arsenic test pad suggests arsenic recovery is below arsenic level expected.	<ol style="list-style-type: none"> <li>1. Cap may have leaked, run test again.</li> <li>2. Arsenic may be bound, insoluble, or organic. This kit only tests for soluble inorganic arsenic.</li> <li>3. Interference due to elevated nitrate, nitrite, hydrogen sulfide or lead (Pb<sup>2+</sup>) in water sample.</li> <li>4. Temperature may be too low. Run test again.</li> <li>5. Sample was preserved with strong acids. Run test again without preservative acids.</li> </ol>

NOTE: If your arsenic level is above 300ppb (µg/L), retest with a 1:5 dilution factor. Fill the reaction bottle to the bottom line with the sample to be tested. Add arsenic-free water to the top line (50mL) of the bottle. This should improve accuracy of arsenic detection for this kit. When you record your results, be sure to multiply by 5 to determine the true arsenic value.

## Suggestions For Best Accuracy

1. To gain confidence in using this test kit for unknown samples, it is highly recommended that you use the kit on a sample with a known inorganic arsenic concentration value, or with a sample that has been prepared using an arsenic standard. By making a "practice run" of the test, you will familiarize yourself with all of the procedures necessary to ensure accurate testing results. Additionally, you will have the opportunity to become familiar with the process of color matching, which will help to ensure accurate test results. ITS suggests the test be run in duplicate for better accuracy.

2. The water sample must not be preserved with nitric acid or any other preservation method. Small amounts of strong acids will interfere with the test results; and therefore it is best that the water sample be freshly drawn and run within 24 hours. Some water samples held for over 24 hours may read low. The water sample should not contain any significant amount of buffers. If you are planning to send a duplicate sample for ICP laboratory verification, follow preservation requirements for that sample only.

3. The recommended temperature range is 15°C to 30°C / 59°F to 86°F. If the water temperature is between 5°C/41°F and 15°C/59°F, the reaction time is TEN minutes. If the water temperature is above 30°C / 86°F your result may read high (accelerator chemistry reacts too fast). The color chart is calibrated at 24°C / 75°F.

4. The zinc will float on top of the solution while the reaction is occurring. This helps to prevent water splashes and also helps to minimize the strip wetness. In this method, the color development on the strip is not affected by the wetness of the strip. Since the zinc is floating on top of the test solution, the zinc will not stick to the reaction bottle which makes the reaction bottle easy to clean.

5. Cleaning of the bottle should be completed immediately. Be sure to rinse the reaction bottle with clean tap water before running the next test.

6. When matching your test strip pad with the colors on the color chart label, it may be helpful to find a color that is clearly lighter than the test strip pad and make note of it (as an example, we will use a value of 10 ppb (µg/L)). Next, find a color that is clearly darker than the test strip pad (as an example, we will use a value of 30 ppb (µg/L)). By defining a lowest and highest possible value range we can assume that the correct color match is 20 ppb (µg/L). If the 20 ppb (µg/L) color matches, then you have determined your arsenic level. In some cases, however, an exact color match will not be available. As an example, if your test strip pad is slightly darker than 20 ppb (µg/L) and slightly lighter than 30 ppb (µg/L), you can estimate a value of 25 ppb (µg/L) as your result. Following these easy steps can make color matching more precise. Careful color matching will assure the best possible result.

7. Levels of hydrogen sulfide above 4 ppm (mg/L) can interfere with this test, resulting in elevated arsenic readings. Our test kit will eliminate up to 4 mg/L of sulfide interference. To overcome hydrogen sulfide levels above 4 mg/L, allow the water sample to sit at room temperature, uncovered and exposed to air for 8 hours (about 50% of the H<sub>2</sub>S gas dissipates for every 8 hours).


8. It has been determined that irrigation of crops with arsenic water increases the soil arsenic levels which can increase the arsenic content in the crop. This arsenic kit can be used for screening of arsenic levels in soil.

9. If you have any questions or comments, please feel free to contact us at 1-803-329-9712 or by email at: [its@sensafe.com](mailto:its@sensafe.com).

**WARNING:** Hydrogen and arsine gases are generated during the test. Work in a well-ventilated area away from open flames and other sources of ignition. Review the Safety Data Sheet before handling any chemicals.

**NOTE:** To ensure complete transfer of reagent, shake or tap the packet before opening to move all reagent to the bottom.


**1** Fill the reaction bottle, with 100mL of water to be tested, to upper line on bottle. For best results, the water temperature should be 59°F (15°C) – 86°F (30°C).




**2** Add 1 powder pillow of First Reagent to the reaction bottle. Tightly cap the bottle with yellow mixing cap and shake 15 seconds vigorously.




**3** Wait **Attendez Espere** انتظر **00:02:00** Wait 2 minutes to minimize sulfide interference.




**4** Uncap bottle and add 1 powder pillow of Second Reagent. Tightly cap the bottle with yellow cap and shake 5 seconds vigorously.




**5** Cap securely **Capsuler fermement Encapsular firmemente** غطاء آمن Remove yellow mixing cap. Immediately recap the bottle tightly using the white cap (must be dry) with turret up (open).




**6** Remove one Arsenic Quick™ test strip from the bottle. Insert the test strip into the dry turret until the red line is even with the top of the turret so that the test pad and red line are facing the back of the white cap. Close (flip down) the turret. **(Note: Steps 6 & 7 should be completed within 30 seconds. Make sure turret cap is dry before inserting strip.)**



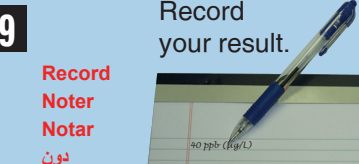
**7** Wait **Attendez Espere** انتظر **00:07:00** Using a timer, wait 7 minutes. Allow the reaction to occur in an undisturbed, well-ventilated area. Reaction generates small hydrogen gas bubbles.



**8** Match color **Egaler le couleur Emparejar color** تطابق اللون After the 7 minute wait open turret and remove test strip. Do not touch the reaction pad. Match within 30 seconds to color chart.



**9** Record your result. **Record Noter Notar** دون



**ATTENTION:** After testing is completed allow the sample to settle. Pour the clear liquid down a sink that is not used for food preparation, and flush with water. Dispose of the wet zinc separately, according to the local regulations. Rinse the bottle, white cap, and yellow cap with clean water. Shake off any excess water and dry the white cap with turret with a soft tissue. Drying the white turret cap is especially important if you plan to run the next test immediately. Store the used strips in a plastic re-sealable bag. Keep the used strips inaccessible to children and pets, and dispose according to local environmental regulations.