SAFETY DATA SHEET (SDS)
Part Number: 9130

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: Helicobacter, Toluidine Blue/Alcian Yellow Stain Kit
   Part Number: 9130
   CAS-No.: Not applicable
   SDS Number: 6190
1.2 Recommended Use: Laboratory Chemicals
1.3 Company: Newcomer Supply
   2505 Parview Road
   Middleton, WI 53562 USA
   Telephone: 1-800-383-7799
   Fax: 1-608-831-0866
   Website: www.newcomersupply.com
   Email: newly@newcomersupply.com

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
   GHS Classification, (in accordance with 29 CFR1910.1200)
   Flammable liquid, Category 2
   Corrosive to metals, Category 1
   Acute toxicity (oral), Category 4
   Acute toxicity (dermal), Category 4
   Acute toxicity (inhalation), Category 4
   Skin corrosion, Category 1
   Serious eye damage, Category 1
   Specific Target Organ Toxicity – Single exposure, Category 2
   Germ cell mutagenicity, Category 2
   Reproductive toxicity, Category 2

2.2 GHS Label elements
   Signal Word: DANGER
   Pictogram:
   Hazard Statement(s):
   · Highly flammable liquid and vapour
   · May be corrosive to metals
   · Harmful if swallowed
   · Harmful in contact with skin
   · Harmful if inhaled
   · Causes severe skin burns and eye damage
   · May cause damage to organs
   · Suspected of causing genetic defects
   · Suspected of damaging fertility or the unborn child
   Precautionary Statement(s):
   Prevention:
   · Obtain special instructions before use.
   · Do not handle until all safety precautions have been read and understood.
   · Keep only in original container.
   · Keep away from heat/sparks/open flames/hot surfaces – No smoking.
   · Keep container tightly closed.
   · Ground/bond container and receiving equipment.
   · Use explosion-proof fume hood/electrical/ventilating/light equipment.

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300
Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.
Part Number: 9130

SAFETY DATA SHEET (SDS)
Revision Date: 10/16/2017
Version 1.4

- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Do not breathe dust/fume/gas/mist/vapours/spray.

Response:
- In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.
- Absorb spillage to prevent material damage.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
  IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Specific treatment: see first aid measures in section 4.
- Immediately call a POISON CENTER or doctor/physician.

Storage:
- Store in a well ventilated place. Keep cool.
- Store in a corrosive resistant container/container with a resistant inner liner.
- Store locked up.

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

2.3 Description of any hazards not otherwise classified None

2.4 >1% of mixture with unknown acute toxicity None

3. COMPOSITION/INFORMATION ON INGREDIENTS
See component SDS

5. FIRE-FIGHTING MEASURES
See component SDS

6. ACCIDENTAL RELEASE MEASURES
See component SDS

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.2 Conditions for safe storage, including any incompatibilities
Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
See component SDS

9. PHYSICAL AND CHEMICAL PROPERTIES

www.newcomersupply.com
<table>
<thead>
<tr>
<th>10. STABILITY AND REACTIVITY</th>
<th>See component SDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11. TOXICOLOGICAL INFORMATION</td>
<td>See component SDS</td>
</tr>
<tr>
<td>12. ECOLOGICAL INFORMATION</td>
<td>See component SDS</td>
</tr>
<tr>
<td>13. DISPOSAL CONSIDERATIONS</td>
<td>See component SDS</td>
</tr>
<tr>
<td>14. TRANSPORT INFORMATION</td>
<td>See component SDS</td>
</tr>
<tr>
<td>14.1 DOT (US)</td>
<td></td>
</tr>
<tr>
<td>UN-Number</td>
<td></td>
</tr>
<tr>
<td>Proper shipping name</td>
<td></td>
</tr>
<tr>
<td>Hazard class</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td></td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No data available</td>
</tr>
<tr>
<td>15. REGULATORY INFORMATION</td>
<td></td>
</tr>
<tr>
<td>16. OTHER INFORMATION</td>
<td></td>
</tr>
<tr>
<td>Preparation Information</td>
<td></td>
</tr>
<tr>
<td>Newcomer Supply Inc.</td>
<td></td>
</tr>
<tr>
<td>800-383-7799</td>
<td></td>
</tr>
<tr>
<td><a href="http://www.newcomersupply.com">www.newcomersupply.com</a></td>
<td></td>
</tr>
<tr>
<td>Copyright © Newcomer Supply Inc. All rights reserved.</td>
<td></td>
</tr>
</tbody>
</table>
1. Product and Company Identification

1.1 Product Name: Helicobacter, Toluidine Blue/Alcian Yellow Stain Kit, Sol’n A: Periodic Acid 1%, Aqueous
   Part Number: 9130
   CAS-No.: Not applicable
   SDS Number: 3800

1.2 Recommended Use: Laboratory Chemicals

1.3 Company: Newcomer Supply
   2505 Parview Road
   Middleton, WI 53562 USA
   Telephone: 1-800-383-7799
   Fax: 1-608-831-0866
   Website: www.newcomersupply.com
   Email: newly@newcomersupply.com

2. Hazard(s) Identification

2.1 Classification of the substance or mixture
   GHS Classification, (in accordance with 29 CFR1910.1200)
   Skin corrosion, Category 1A
   Serious eye damage, Category 1

2.2 GHS Label elements
   Signal Word: DANGER
   Pictogram

   Hazard Statement(s):
   - Causes severe skin burns and eye damage

   Precautionary Statement(s):
   Prevention:
   - Wear protective gloves/protective clothing/eye protection/face protection.
   - Do not breathe dust/fume/gas/mist/vapours/spray.
   - Wash skin thoroughly after handling.
   Response:
   - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
   - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
   - Wash contaminated clothing before reuse.
   - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
   - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
   - Specific treatment: see first aid measures in section 4.
   - Immediately call a POISON CENTER or doctor/physician.

   Storage:
   - Store locked up.

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

2.3 Description of any hazards not otherwise classified
   None

2.4 >1% of mixture with unknown acute toxicity
   None
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture
Hazardous Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Concentration</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>10450-60-9</td>
</tr>
<tr>
<td></td>
<td>1%</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

4.1 Description of necessary measures

Inhalation (breathing)
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

Eye Contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion (swallowed)
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and or effects, acute and delayed
The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media
Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture
No data available

5.3 Protective equipment and precautions for fire-fighters
Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating
<table>
<thead>
<tr>
<th>Health hazard</th>
<th>Fire hazard</th>
<th>Reactivity hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area.

6.2 Methods and material for containment and cleaning up
Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Do not breathe dust/fume/gas/mist/odours/spray. Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities
Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Does not contain components with occupational exposure limits.

8.2 Exposure Controls
Appropriate engineering controls
Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Use product in an appropriately designated fume hood. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment
Eye/Face protection
Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin Protection
Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

Body Protection
No data available

Respiratory Protection
No data available

Other Information
None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Colorless liquid
Odor: Odorless
Odor threshold: <2
pH: ca. 0°C (ca. 32°F)
Melting point/freezing point: ca. 100°C (ca. 32°F)
Initial boiling point and boiling range: ca. 100°C (ca. 32°F)
Flash point: No data available
Evaporation rate: No data available
Flammability (solid, gas): No data available
Upper flammability or explosive limits: No data available
Lower flammability or explosive limits: No data available
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Similar to water</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Water soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

10.1 Reactivity
- No data available

10.2 Chemical stability
- Stable in a closed container within label-specified storage temperature and expiration date.

10.3 Possibility of hazardous reactions
- No data available

10.4 Conditions to avoid
- No data available

10.5 Incompatible materials
- Strong reducing agents, acids, bases, dimethyl sulfide, and metals

10.6 Hazardous decomposition products
- No data available

### 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

#### Inhalation exposure
- No data available

#### Oral exposure
- No data available

#### Dermal exposure
- No data available

#### Skin corrosion/irritation
- No data available

#### Serious eye damage/irritation
- No data available

#### Respiratory or skin sensitization
- No data available

#### Germ Cell mutagenicity
- No data available

#### Reproductive toxicity
- No data available

#### Specific target organ toxicity - single exposure
- No data available

#### Specific target organ toxicity - repeated exposure
- No data available
Aspiration hazard
No data available

Acute toxicity
No data available

Carcinogenicity
IARC: None of the components are listed
NTP: None of the components are listed
OSHA: None of the components are listed

Additional information
RTECS: No data available

12. ECOTOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods
Contents
Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

14.1 DOT (US)
UN-Number  No data available
Proper shipping name  No data available
Hazard class  No data available
Packing group  No data available
Environmental hazards  No data available

15. REGULATORY INFORMATION

15.1 No data available

16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com
Copyright © Newcomer Supply Inc. All rights reserved.
1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>1.1 Product Name:</th>
<th>Helicobacter, Toluidine Blue/Alcian Yellow Stain Kit, Sol’n B: Sodium Metabisulfite 5%, Acidified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number:</td>
<td>9130</td>
</tr>
<tr>
<td>CAS-No.:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>SDS Number:</td>
<td>4360</td>
</tr>
</tbody>
</table>

1.2 Recommended Use: Laboratory Chemicals

1.3 Company: Newcomer Supply

- Telephone: 1-800-383-7799
- Fax: 1-608-831-0866
- Website: [www.newcomersupply.com](http://www.newcomersupply.com)
- Email: newly@newcomersupply.com

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

- Acute toxicity (oral), Category 4
- Skin corrosion, Category 1
- Serious eye damage, Category 1

2.2 GHS Label elements

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>DANGER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pictogram</td>
<td><img src="image" alt="Pictogram" /></td>
</tr>
</tbody>
</table>

**Hazard Statement(s):**

- Harmful if swallowed
- Causes severe skin burns and eye damage

**Precautionary Statement(s):**

**Prevention:**

- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Do not breathe dust/fume/gas/mist/vapours/spray.

**Response:**

- **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- **IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- **Wash contaminated clothing before reuse.**
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.
- **IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell.

**Specific treatment:** see first aid measures in section 4.

**Storage:**

- Store locked up.

**Disposal:**

24 HOUR EMERGENCY CONTACT

CALL CHEMTREC: 1-800-424-9300

Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.
2.3 Description of any hazards not otherwise classified
None

2.4 >1% of mixture with unknown acute toxicity
None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture
Hazardous Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Sodium Metabisulfite</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>7681-57-4</td>
</tr>
<tr>
<td>Name</td>
<td>Hydrochloric Acid</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>7647-01-0</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

4.1 Description of necessary measures

Inhalation (breathing)
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

Eye Contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion (swallowed)
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and or effects, acute and delayed
The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media
Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture
No data available

5.3 Protective equipment and precautions for fire-fighters
Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating
Health: 1, Fire: 0, Reactivity: 0, Other: Oxidizer

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area.

6.2 Methods and material for containment and cleaning up
Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities
Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Components with limit values that require monitoring at the workplace

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Regulatory</th>
<th>Value</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metabisulfite</td>
<td>7681-57-4</td>
<td>ACGIH TLV</td>
<td>TWA</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL</td>
<td>TWA</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>TWA</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

8.2 Exposure Controls
Appropriate engineering controls
Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Use product in an appropriately designated fume hood. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment
Eye/face protection
Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin protection
Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

Body protection
No data available

Respiratory protection
Respirators should only be used if the employer has a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134). In case of emergency, entry into or escape from unknown concentrations, select the highest level approved respiratory protection available.

Other Information
None
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Translucent, colorless liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>ca. 0°C (ca. 32°F)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>ca. 100°C (ca. 32°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Similar to water</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Water soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable in a closed container within label-specified storage temperature and expiration date.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents and acids

10.6 Hazardous decomposition products
Sulfur oxides and sodium oxide. May emit toxic and irritating fumes under heat conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Oral exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Dermal exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Sodium metabisulfite is irritating to skin.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Sodium metabisulfite is irritating to the eyes.</td>
</tr>
</tbody>
</table>
Respiratory or skin sensitization
No data available

Germ Cell mutagenicity
No data available

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Acute toxicity
Sodium metabisulfite:
LD50 rat oral 2000 mg/kg

Carcinogenicity
IARC: None of the components are listed
NTP: None of the components are listed
OSHA: None of the components are listed

Additional information
RTECS: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods
Contents
Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

14.1 DOT (US)
15. REGULATORY INFORMATION

15.1 No data available

16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799

www.newcomersupply.com

Copyright © Newcomer Supply Inc. All rights reserved.
1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: Helicobacter, Toluidine Blue/Alcian Yellow Stain Kit, Sol’n C: Alcian Yellow Stain 1%, Alcoholic

Part Number: 9130
CAS-No.: Not applicable
SDS Number: 2170

1.2 Recommended Use: Laboratory Chemicals

1.3 Company: Newcomer Supply
2505 Parview Road
Middleton, WI 53562 USA
Telephone: 1-800-383-7799
Fax: 1-608-831-0866
Website: www.newcomersupply.com
Email: newly@newcomersupply.com

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification, (in accordance with 29 CFR1910.1200)
- Flammable liquid, Category 2
- Acute toxicity (oral), Category 4
- Acute toxicity (dermal), Category 4
- Acute toxicity (inhalation), Category 4
- Serious Eye Damage/Eye irritation, Category 2A
- Skin irritation, Category 2
- Specific Target Organ Toxicity – Single exposure, Category 2
- Germ cell mutagenicity, Category 2
- Reproductive toxicity, Category 2

2.2 GHS Label elements
Signal Word: DANGER

Pictogram

Hazard Statement(s):
- Highly flammable liquid and vapour
- Harmful if swallowed
- Harmful in contact with skin
- Harmful if inhaled
- Causes serious eye damage
- Causes skin irritation
- May cause damage to organs
- Suspected of causing genetic defects
- Suspected of damaging fertility or the unborn child

Precautionary Statement(s):
Prevention:
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces – No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof fume hood/electrical/ventilating/light equipment.
- Use only non-sparking tools.

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300
Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.
Part Number: 9130

- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid breathing dust/fume/gas/mist/vapours/spray.

Response:
- In case of fire use carbon dioxide, dry chemical or alcohol-resistant foam.

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.
- If skin irritation occurs: Get medical advice/attention.

FALSE
- If eye irritation persists get medical advice/attention.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.
- Specific treatment: see first aid measures in section 4.
- IF exposed or concerned: Get medical advice/attention.

Storage:
- Store in a well ventilated place. Keep cool.
- Store locked up.

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

2.3 Description of any hazards not otherwise classified

None

2.4 >1% of mixture with unknown acute toxicity

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Concentration</td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
<td>43-44%</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>2-3%</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>2-3%</td>
</tr>
<tr>
<td>Alcian Yellow</td>
<td></td>
</tr>
<tr>
<td>Glacial Acetic Acid</td>
<td>1%</td>
</tr>
<tr>
<td></td>
<td>3%</td>
</tr>
</tbody>
</table>

4.1 Description of necessary measures

Inhalation (breathing)
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

Skin Contact
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Eye Contact**
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.

**Ingestion (swallowed)**
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

### 4.2 Most important symptoms and or effects, acute and delayed
The most important symptoms/effects are presented in Section 2 and or Section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed
No data available

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Suitable extinguishing media
Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

#### 5.2 Specific hazards arising from the substance or mixture
No data available

#### 5.3 Protective equipment and precautions for fire-fighters
Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

**NFPA Rating**

<table>
<thead>
<tr>
<th>Health hazard</th>
<th>Fire hazard</th>
<th>Reactivity hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures
Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area. Keep product away from heat, flame, ignition sources, and reactive materials. Avoid accumulation of vapor to form explosive concentration. Pay particular attention to low areas where vapor accumulates more easily.

#### 6.2 Methods and material for containment and cleaning up
Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations. Eliminate sources of ignition.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

#### 7.2 Conditions for safe storage, including any incompatibilities
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Components with limit values that require monitoring at the workplace

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Regulatory</th>
<th>Value</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>OSHA PEL</td>
<td>TWA</td>
<td>1000 ppm (1900 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>TWA</td>
<td>1000 ppm (1880 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>TWA</td>
<td>1000 ppm (1900 mg/m³)</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>OSHA PEL</td>
<td>TWA</td>
<td>200 ppm (980 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>STEL</td>
<td>200 ppm (1,230 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>STEL</td>
<td>50 ppm (1,230 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>TWA</td>
<td>200 ppm (980 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>STEL</td>
<td>250 ppm (980 mg/m³)</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>OSHA PEL</td>
<td>TWA</td>
<td>400 ppm (980 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>TWA</td>
<td>400 ppm (983 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>STEL</td>
<td>500 ppm (1,230 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>TWA</td>
<td>400 ppm (980 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>STEL</td>
<td>500 ppm (980 mg/m³)</td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>64-19-7</td>
<td>OSHA PEL</td>
<td>TWA</td>
<td>10 ppm (25 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>TWA</td>
<td>10 ppm (25 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>STEL</td>
<td>15 ppm (37 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>TWA</td>
<td>10 ppm (25 mg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>STEL</td>
<td>15 ppm (37 mg/m³)</td>
</tr>
</tbody>
</table>

8.2 Exposure Controls
Appropriate engineering controls
Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Use product in an appropriately designated fume hood. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment
Eye/face protection
Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin Protection
Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

Body Protection
No data available

Respiratory Protection
Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Ethyl Alcohol: Where the potential exists for exposure over 1,000 ppm: use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode. For increased protection use in combination with an auxiliary self-contained breathing apparatus or an emergency escape air cylinder.

Exposure to 3,300 ppm is immediately dangerous to life and health. If the possibility of exposure above 3,300 ppm exists, use a NIOSH approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode equipped with an emergency escape air cylinder.

In case of emergency, entry into or escape from unknown concentrations select the highest level approved respiratory protection available.

### Other Information

None

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Translucent yellow tinted liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcoholic odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>ca. 13°C (ca. 55.4°F) Closed cup (Ethyl Alcohol)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Liquid is flammable</td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>19% (Ethyl Alcohol)</td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>3.3% (Ethyl Alcohol)</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Water soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable in a closed container within label-specified storage temperature and expiration date.

#### 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

Heat, sparks, open flame, and ignition sources.

#### 10.5 Incompatible materials
Strong oxidizers, potassium dioxide, bromine pentafluoride, acetyl bromide, acetyl chloride, platinum, sodium concentrated sulfuric acid, potassium and hydrogen peroxides, platinum black, calcium hypochlorite, silver oxide, ammonia, nitric acid, mercuric nitrate, silver nitrate, magnesium perchlorate, isocyanates, mineral acids, and chloroform.

10.6 Hazardous decomposition products
Carbon dioxide and carbon monoxide may be released if product is heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure
Inhaling ethyl alcohol, methyl alcohol, and isopropyl alcohol can irritate the nose, throat and lungs causing coughing and/or shortness of breath. Human data (Glacial Acetic Acid): Marked irritation of the nose, and upper respiratory tract which could not be tolerated for more than 3 minutes was noted at 816 to 1,226 ppm.

Oral exposure
Oral exposure to ethyl alcohol, methyl alcohol, and isopropyl alcohol can cause headache, drowsiness, nausea and vomiting, and unconsciousness. It can also affect concentration and vision.

Dermal exposure
Contact with ethyl alcohol can irritate the skin.

Skin corrosion/irritation
Prolonged or repeated exposure to ethyl alcohol can cause drying and cracking of the skin with peeling, redness and itching. Human data (Glacial Acetic Acid): It has been reported that 50 ppm or more is intolerable to most persons due to intense lacrimation and irritation of the eyes, nose, and throat. It has also been stated that repeated exposures to high concentrations may produce respiratory tract irritation with pharyngeal edema and chronic bronchitis.

Serious eye damage/irritation
Contact with ethyl alcohol can irritate the eyes. Human data (Glacial Acetic Acid): It has been reported that 50 ppm or more is intolerable to most persons due to intense lacrimation and irritation of the eyes, nose, and throat.

Respiratory or skin sensitization
It has been stated that repeated exposures to high concentrations may produce respiratory tract irritation with pharyngeal edema and chronic bronchitis.

Germ cell mutagenicity
Alcian yellow is suspected to cause germ cell mutagenicity.

Reproductive toxicity
Repeated oral exposure to ethyl alcohol may cause spontaneous abortions, as well as birth defects and other developmental problems. This condition is referred to as “fetal alcohol syndrome.” There is limited evidence that oral exposure to ethyl alcohol may decrease fertility in males. Alcian Yellow is suspected of reproductive toxicity.

Specific target organ toxicity - single exposure
Exposure to ethyl alcohol may affect the liver and the nervous system.

Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available

Acute toxicity
Ethyl Alcohol:
LD50 rat oral 3450 mg/kg
LD50 mouse oral 7060 mg/kg
LC50 rat inhalation 20000 ppm/10H
LC50 mouse inhalation 20363 ppm/4H

Glacial Acetic Acid:
LD50 rat oral 3310 mg/kg
LD50 rabbit skin 1060uL/kg
LD50 mouse intravenous 525mg/kg
LC50 mouse inhalation 5620ppm/1H

Carcinogenicity
IARC: None of the components are listed
NTP: None of the components are listed
OSHA: None of the components are listed

Additional information
RTECS: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods

Contents
Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.
Environmental hazards | No data available

15. REGULATORY INFORMATION

15.1 No data available

16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomersupply.com
Copyright © Newcomer Supply Inc. All rights reserved.
1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: Helicobacter, Toluidine Blue/Alcian Yellow Stain Kit, Sol’n D: Toluidine Blue Stock Stain 1%, Aqueous

Part Number: 9130

CAS-No.: Not applicable

SDS Number: 4500

1.2 Recommended Use: Laboratory Chemicals

1.3 Company: Newcomer Supply

2505 Parview Road

Middleton, WI 53562 USA

Telephone: 1-800-383-7799

Fax: 1-608-831-0866

Website: www.newcomersupply.com

Email: newly@newcomersupply.com

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification, (in accordance with 29 CFR1910.1200)

Signal Word

Pictogram

Hazard Statement(s):

・ None

Precautionary Statement(s):

・ None

2.2 GHS Label elements

Signal Word: NONE

2.3 Description of any hazards not otherwise classified

None

2.4 >1% of mixture with unknown acute toxicity

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Toluidine Blue</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>92-31-9</td>
</tr>
<tr>
<td></td>
<td>1%</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

4.1 Description of necessary measures

Inhalation (breathing)

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell.

Eye Contact

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300

Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.
If swallowed, rinse out mouth thoroughly with water. If eye irritation persists get medical advice/attention.

**Ingestion (swallowed)**
If swallowed: rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.

4.2 **Most important symptoms and/or effects, acute and delayed**
The most important symptoms/effects are presented in Section 2 and/or Section 11.

4.3 **Indication of any immediate medical attention and special treatment needed**
No data available

5. **FIRE-FIGHTING MEASURES**

5.1 **Suitable extinguishing media**
Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 **Specific hazards arising from the substance or mixture**
No data available

5.3 **Protective equipment and precautions for fire-fighters**
Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

**NFPA Rating**

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>hazard: 0</td>
<td>hazard: 0</td>
<td>hazard: 0</td>
</tr>
</tbody>
</table>

6. **ACCIDENTAL RELEASE MEASURES**

6.1 **Personal precautions, protective equipment and emergency procedures**
Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing dust. Avoid skin contact. Avoid eye contact. Wash hands after use.

6.2 **Methods and material for containment and cleaning up**
Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations.

7. **HANDLING AND STORAGE**

7.1 **Precautions for safe handling**
Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

7.2 **Conditions for safe storage, including any incompatibilities**
Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Control Parameters**
None of the components require monitoring at the workplace.

8.2 **Exposure Controls**
Appropriate engineering controls
Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises.

### 8.3 Personal Protective Equipment

**Eye/Face protection**

Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

**Skin Protection**

Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

**Body Protection**

No data available

**Respiratory Protection**

No data available

**Other Information**

None

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Translucent, colorless liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>ca. 0°C (ca. 32°F)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>ca. 100°C (ca. 32°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Evap. rate of water = 1; 1</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>18 mm Hg at 20°C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>For water in air = 1; 1</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1.222 (mPa)(s) at 20°C</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable in a closed container within label-specified storage temperature and expiration date.

#### 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

No data available

#### 10.5 Incompatible materials
10.6 Hazardous decomposition products
No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Inhalation exposure
No data available

Oral exposure
No data available

Dermal exposure
No data available

Skin corrosion/irritation
No data available

Serious eye damage/irritation
No data available

Respiratory or skin sensitization
No data available

Germ Cell mutagenicity
No data available

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Acute toxicity
No data available

Carcinogenicity
IARC: None of the components are listed
NTP: None of the components are listed
OSHA: None of the components are listed

Additional information
RTECS: No data available

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
   No data available

12.5 Other adverse effects
   No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods
   Contents
   Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

   Contaminated packaging
   Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

14.1 DOT (US)
   UN-Number     No data available
   Proper shipping name No data available
   Hazard class   No data available
   Packing group  No data available
   Environmental hazards No data available

15. REGULATORY INFORMATION

15.1 No data available

16. OTHER INFORMATION

   Preparation Information
   Newcomer Supply Inc.
   800-383-7799
   www.newcomersupply.com
   Copyright © Newcomer Supply Inc. All rights reserved.
1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Name: Helicobacter, Toluidine Blue/Alcian Yellow Stain Kit, Sol’n E: Sodium Hydroxide 3%, Aqueous

1.2 Recommended Use: Laboratory Chemicals

1.3 Company: Newcomer Supply
2505 Parview Road
Middleton, WI 53562 USA
Telephone: 1-800-383-7799
Fax: 1-608-831-0866
Website: www.newcomersupply.com
Email: newly@newcomersupply.com

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification, (in accordance with 29 CFR1910.1200)
Corrosive to metals, Category 1
Skin corrosion, Category 1B
Serious eye damage, Category 1

2.2 GHS Label elements
Signal Word

Pictogram

Hazard Statement(s):
· May be corrosive to metals
· Causes severe skin burns and eye damage
Precautionary Statement(s):
Prevention:
· Do not breathe dust/fume/gas/mist/vapours/spray.
· Wash skin thoroughly after handling.
· Wear protective gloves/protective clothing/eye protection/face protection.
Response:
· Absorb spillage to prevent material damage.
· IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
· IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
· Wash contaminated clothing before reuse.
· IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
· IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
· IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
· Specific treatment: see first aid measures in section 4.
· Immediately call a POISON CENTER or doctor/physician.
Storage:
· Store locked up.
· Store in a corrosive resistant container/container with a resistant inner liner.
Disposal:

24 HOUR EMERGENCY CONTACT
CALL CHEMTREC: 1-800-424-9300
Contact CHEMTREC only in the event of an emergency involving a chemical spill, leak, fire, exposure or other accident.
2.3 Description of any hazards not otherwise classified

None

2.4 >1% of mixture with unknown acute toxicity

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Hazardous Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>3%</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

4.1 Description of necessary measures

Inhalation (breathing)

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion (swallowed)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and or effects, acute and delayed

The most important symptoms/effects are presented in Section 2 and or Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Carbon dioxide, dry chemical, water spray, alcohol-resistant foam.

5.2 Specific hazards arising from the substance or mixture

No data available

5.3 Protective equipment and precautions for fire-fighters

Wear a positive-pressure self-contained breathing apparatus if necessary. Wear chemical resistant clothing as recommended by clothing manufacturer.

NFPA Rating

<table>
<thead>
<tr>
<th>Health hazard</th>
<th>Fire hazard</th>
<th>Reactivity hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Apply personal protective equipment (see Section 8). Use in a properly ventilated area. Avoid breathing vapors. Avoid skin contact. Avoid eye contact. Wash hands after use. In case of large spill, remove personnel to a safe area.

6.2 Methods and material for containment and cleaning up
Apply personal protective equipment (see Section 8). Contain spill. Prevent further leakage if possible and safe to do so. Ensure proper ventilation. For small amounts, wipe or absorb spill using inert material and dispose of according to local regulations. For large amounts, evacuate area and limit access. Prevent entry of material into sewage drains and confined areas. Dispose of any contaminated materials according to local regulations.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

7.2 Conditions for safe storage, including any incompatibilities
Refer to Section 2.2 for proper storage temperature. Store the tightly closed container in a cool, dry, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Components with limit values that require monitoring at the workplace

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Regulatory</th>
<th>Value</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>OSHA PEL</td>
<td>TWA</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH TLV</td>
<td>C</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL</td>
<td>C</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

8.2 Exposure Controls
Appropriate engineering controls
Use in a properly ventilated area. Remove/wash before reuse contaminated clothing. Wash hands upon exiting work premises. Use product in an appropriately designated fume hood. Take measures to keep concentrations below acceptable limits.

8.3 Personal Protective Equipment
Eye/Face protection
Wear chemical safety goggles and/or a full face shield if splashing is possible. Keep eye wash fountain nearby.

Skin Protection
Wear chemical-resistant gloves. Gloves should be resistant to components of product. Refer to glove manufacturer for appropriate type and glove thickness.

Body Protection
No data available

Respiratory Protection

No data available
Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Where the potential exists for exposure over 2 mg/m3: use a NIOSH approved negative pressure, air-purifying, particulate filter respirator with an N, R or P100 filter. More protection is provided by a full facepiece respirator than by a half-mask respirator, and even greater protection is provided by a powered-air purifying respirator.

Leave the area immediately if (1) while wearing a filter or cartridge respirator you can smell, taste, or otherwise detect sodium hydroxide, (2) while wearing particulate filters abnormal resistance to breathing is experienced, or (3) eye irritation occurs while wearing a full facepiece respirator.

Exposure to 10 mg/m3 is immediately dangerous to life and health. If the possibility of exposure above 10 mg/m3 exists, use a NIOSH approved self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode equipped with an emergency escape air cylinder.

In case of emergency, entry into or escape from unknown concentrations, select the highest level of protection available.

**Other Information**
None

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>9.1 Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state</strong></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
</tr>
<tr>
<td><strong>pH</strong></td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
</tr>
<tr>
<td><strong>Upper flammability or explosive limits</strong></td>
</tr>
<tr>
<td><strong>Lower flammability or explosive limits</strong></td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>10.1 Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10.2 Chemical stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable in a closed container within label-specified storage temperature and expiration date.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10.3 Possibility of hazardous reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10.4 Conditions to avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
</tr>
</tbody>
</table>
10.5 Incompatible materials

Sodium hydroxide reacts with strong acids (such as hydrochloric, sulfuric and nitric); water; and moisture to rapidly release heat. Sodium hydroxide reacts with metals (such as aluminum, lead, tin and zinc) to form flammable and explosive hydrogen gas. Sodium hydroxide can form shock sensitive salts on contact with nitrogen containing compounds (such as nitromethane). Sodium hydroxide is not compatible with oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine and fluorine); chlorinated solvents; ammonia; and organic materials. Sodium hydroxide can attack iron, copper, plastics, rubber and coatings.

10.6 Hazardous decomposition products
No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation exposure
No data available

Oral exposure
No data available

Dermal exposure
No data available

Skin corrosion/irritation
Sodium Hydroxide: Contact can severely irritate and burn the skin.

Serious eye damage/irritation
Sodium Hydroxide: Contact can severely irritate and burn the eyes with possible permanent eye damage (corneal opacities), causing blindness.

Respiratory or skin sensitization
No data available

Germ Cell mutagenicity
No data available

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Acute toxicity
Sodium hydroxide:
LD50 mouse intraperitoneal  40 mg/kg

Carcinogenicity
IARC: None of the components are listed
NTP: None of the components are listed
OSHA: None of the components are listed
12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal methods
Contents
Dispose of contents in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of packaging in a safe manner to comply with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

14.1 DOT (US)
UN-Number No data available
Proper shipping name No data available
Hazard class No data available
Packing group No data available
Environmental hazards No data available

15. REGULATORY INFORMATION

15.1 No data available

16. OTHER INFORMATION

Preparation Information
Newcomer Supply Inc.
800-383-7799
www.newcomerssupply.com
Copyright © Newcomer Supply Inc. All rights reserved.