

Part Number: 91012

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product Name:** **AFB Stain Kit, Basic Fuchsin, Ellis & Zabrowarny**
Part Number: 91012
CAS-No.: Not applicable
SDS Number: 6000
- 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

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. 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, Category 1
 Skin corrosion, Category 1B
 Specific Target Organ Toxicity – Single exposure, Category 2
 Corrosive to metals, Category 1
 Carcinogenicity, Category 1B

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 severe skin burns and eye damage
- May cause damage to organs
- May be corrosive to metals
- May cause cancer

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.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.

Part Number: 91012

- 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.
- Keep only in original container.

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 eye irritation persists get medical advice/attention.

· IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

· Rinse mouth.

· Specific treatment is urgent: see first aid measures in section 4.

· Immediately call a POISON CENTER or doctor/physician.

Storage:

· Store in a corrosive resistant container/container with a resistant inner liner.

· Store in a well ventilated place.

· 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

4. FIRST-AID MEASURES

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

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

See component SDS

Part Number: 91012

9. PHYSICAL AND CHEMICAL PROPERTIES

See component SDS

10. STABILITY AND REACTIVITY

See component SDS

11. TOXICOLOGICAL INFORMATION

See component SDS

12. ECOLOGICAL INFORMATION

See component SDS

13. DISPOSAL CONSIDERATIONS

See component SDS

14. TRANSPORT INFORMATION**14.1 DOT (US)****UN-Number****Proper shipping name****Hazard class****Packing group****Environmental hazards**

No data available

15. REGULATORY INFORMATION

See component SDS

16. OTHER INFORMATION

Preparation Information

Newcomer Supply Inc.

800-383-7799

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Part Number: 91012

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product Name:** **AFB, Basic Fuchsin, Ellis & Zabrowarny Stain Kit Sol'n A: Basic Fuchsin Stain 1%, Alcoholic**
- Part Number:** 91012
- CAS-No.:** Not applicable
- SDS Number:** 2400
- 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
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24 HOUR EMERGENCY CONTACT
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2. HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture**
 GHS Classification, (in accordance with 29 CFR1910.1200)
 Flammable liquid, Category 3
 Serious Eye Damage/Eye irritation, Category 2A
 Acute toxicity (oral), Category 4
 Acute toxicity (dermal), Category 4
 Acute toxicity (inhalation), Category 4
 Carcinogenicity, Category 1B

2.2 GHS Label elements

Signal Word DANGER

Pictogram



Hazard Statement(s):

- Flammable liquid and vapour
- Causes serious eye irritation
- Harmful if swallowed
- Harmful in contact with skin
- Harmful if inhaled
- May cause cancer

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

Part Number: 91012

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 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.
- 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

| Component | | Concentration |
|-----------|------------------------|---------------|
| Name | Ethyl Alcohol | |
| CAS-No. | 64-17-5 | 8-9% |
| Name | Isopropyl Alcohol | |
| CAS-No. | 67-63-0 | <1% |
| Name | Methyl Alcohol | |
| CAS-No. | 67-56-1 | <1% |
| Name | Methyl Isobutyl Ketone | |
| CAS-No. | 108-10-1 | <1% |
| Name | Basic Fuchsin | |
| CAS-No. | 569-61-9 | 1% |
| Name | Triton X-100 | |
| CAS-No. | 9002-93-1 | <<1% |

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. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell.

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)

Part Number: 91012

IF SWALLOWED: Rinse mouth. 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 | Fire | Reactivity |
| hazard: 2 | hazard: 2 | hazard: 0 |

6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures

Apply personal protective equipment (see Section 8.2). 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 8.2). 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

Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

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

| Component | CAS-No. | Regulatory | Value | Parameters |
|---------------|---------|------------|-------|------------------------------------|
| Ethyl Alcohol | 64-17-5 | OSHA PEL | TWA | 1000 ppm (1900 mg/m ³) |
| | | ACGIH TLV | TWA | 1000 ppm (1880 mg/m ³) |

Part Number: 91012

| | | NIOSH REL | TWA | 1000 ppm (1900 mg/m ³) |
|------------------------|----------|------------|-------|------------------------------------|
| Component | CAS-No. | Regulatory | Value | Parameters |
| Methyl Alcohol | 67-56-1 | OSHA PEL | TWA | 200 ppm (980 mg/m ³) |
| | | ACGIH TLV | STEL | 200 ppm (1,230 mg/m ³) |
| | | ACGIH TLV | STEL | 50 ppm (1,230 mg/m ³) |
| | | NIOSH REL | TWA | 200 ppm (980 mg/m ³) |
| | | NIOSH REL | STEL | 250 ppm (980 mg/m ³) |
| Component | CAS-No. | Regulatory | Value | Parameters |
| Isopropyl Alcohol | 67-63-0 | OSHA PEL | TWA | 400 ppm (980 mg/m ³) |
| | | ACGIH TLV | TWA | 400 ppm (983 mg/m ³) |
| | | ACGIH TLV | STEL | 500 ppm (1,230 mg/m ³) |
| | | NIOSH REL | TWA | 400 ppm (980 mg/m ³) |
| | | NIOSH REL | STEL | 500 ppm (980 mg/m ³) |
| Component | CAS-No. | Regulatory | Value | Parameters |
| Methyl Isobutyl Ketone | 108-10-1 | OSHA PEL | TWA | 100 ppm (410 mg/m ³) |
| | | ACGIH TLV | TWA | 50 ppm (205 mg/m ³) |
| | | ACGIH TLV | STEL | 75 ppm (307 mg/m ³) |
| | | NIOSH REL | TWA | 50 ppm (205 mg/m ³) |
| | | NIOSH REL | STEL | 75 ppm (300 mg/m ³) |

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

Part Number: 91012

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

| | |
|---|-------------------------------------|
| Physical state | Opaque pinkish-purple tinted liquid |
| Odor | No data available |
| Odor threshold | No data available |
| pH | No data available |
| Melting point/freezing point | No data available |
| Initial boiling point and boiling range | No data available |
| 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 |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Solubility(ies) | Water soluble |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |

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

Part Number: 91012

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

No data available

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. Breathing methyl isobutyl ketone can irritate the nose and throat causing coughing and wheezing. Breathing methyl isobutyl ketone vapor can cause headache, loss of appetite, nausea, vomiting, and diarrhea.

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 can irritate the skin.

Skin corrosion/irritation

Prolonged or repeated exposure can cause drying and cracking of the skin with peeling, redness and itching.

Serious eye damage/irritation

Contact can irritate and burn the eyes.

Respiratory or skin sensitization

Inhaling ethyl alcohol, methyl alcohol, and isopropyl alcohol can irritate the nose, throat and lungs causing coughing and/or shortness of breath.

Germ Cell mutagenicity

No data available

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.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Repeated high exposure may affect the liver and the nervous system.

Aspiration hazard

No data available

Acute toxicity

Part Number: 91012

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
 Triton X-100:
 LD50 rat oral 1800 mg/kg
 Basic Fuchsin:
 LD50 rat oral 5 g/kg

Carcinogenicity

IARC: Methyl Isobutyl Ketone: Group 2B Possible human carcinogen, Basic Fuchsin: Group 2A, probable carcinogen
 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
Proper shipping name
Hazard class
Packing group
Environmental hazards

No data available

15. REGULATORY INFORMATION
15.1 No data available

Part Number: 91012

16. OTHER INFORMATION

Preparation Information

Newcomer Supply Inc.

800-383-7799

www.newcomersupply.com

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Part Number: 91012

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product Name:** AFB, Basic Fuchsin, Ellis & Zabrowarny Stain Kit, Sol'n B: Acid Alcohol 3%
Part Number: 91012
CAS-No.: Not applicable
SDS Number: 2110
- 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
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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, Category 1
 Skin corrosion, Category 1B
 Specific Target Organ Toxicity – Single exposure, Category 2
 Corrosive to metals, Category 1

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 severe skin burns and eye damage
 - May cause damage to organs
 - May be corrosive to metals
- Precautionary Statement(s):**
Prevention:
- 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.
 - 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.
 - Avoid breathing dust/fume/gas/mist/vapours/spray.

Part Number: 91012

· Keep only in original container.

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 corrosive resistant container/container with a resistant inner liner.

· 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

| Component | | Concentration |
|-----------|-------------------|---------------|
| Name | Ethyl Alcohol | |
| CAS-No. | 64-17-5 | 83-84% |
| Name | Methyl Alcohol | |
| CAS-No. | 67-56-1 | 4-6% |
| Name | Isopropyl Alcohol | |
| CAS-No. | 67-63-0 | 4-6% |
| Name | Hydrochloric Acid | |
| CAS-No. | 7647-01-0 | 1-2% |

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)

Part Number: 91012

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

| | | |
|-----------|-----------|------------|
| Health | Fire | Reactivity |
| hazard: 2 | hazard: 3 | hazard: 0 |

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

Keep away from heat/sparks/open flames/hot surfaces – No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.

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

| Component | CAS-No. | Regulatory | Value | Parameters |
|---------------|---------|------------|-------|------------------------------------|
| Ethyl Alcohol | 64-17-5 | OSHA PEL | TWA | 1000 ppm (1900 mg/m ³) |

Part Number: 91012

| | | | | |
|--|--|-----------|-----|------------------------------------|
| | | ACGIH TLV | TWA | 1000 ppm (1880 mg/m ³) |
| | | NIOSH REL | TWA | 1000 ppm (1900 mg/m ³) |

| Component | CAS-No. | Regulatory | Value | Parameters |
|----------------|---------|------------|-------|------------------------------------|
| Methyl Alcohol | 67-56-1 | OSHA PEL | TWA | 200 ppm (980 mg/m ³) |
| | | ACGIH TLV | STEL | 200 ppm (1,230 mg/m ³) |
| | | ACGIH TLV | STEL | 50 ppm (1,230 mg/m ³) |
| | | NIOSH REL | TWA | 200 ppm (980 mg/m ³) |
| | | NIOSH REL | STEL | 250 ppm (980 mg/m ³) |

| Component | CAS-No. | Regulatory | Value | Parameters |
|-------------------|---------|------------|-------|------------------------------------|
| Isopropyl Alcohol | 67-63-0 | OSHA PEL | TWA | 400 ppm (980 mg/m ³) |
| | | ACGIH TLV | TWA | 400 ppm (983 mg/m ³) |
| | | ACGIH TLV | STEL | 500 ppm (1,230 mg/m ³) |
| | | NIOSH REL | TWA | 400 ppm (980 mg/m ³) |
| | | NIOSH REL | STEL | 500 ppm (980 mg/m ³) |

| Component | CAS-No. | Regulatory | Value | Parameters |
|-------------------|-----------|------------|-------|--------------------------------|
| Hydrochloric Acid | 7647-01-0 | OSHA PEL | C | 5 ppm (7 mg/m ³) |
| | | NIOSH REL | C | 5 ppm (7 mg/m ³) |
| | | NIOSH REL | IDLH | 50 ppm (75 mg/m ³) |
| | | ACGIH TLV | C | 2 ppm |

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

Part Number: 91012

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 ppm: use a NIOSH approved full facepiece respirator with an acid gas cartridge which is specifically approved for hydrochloric acid. Increased protection is obtained from full facepiece powered-air purifying respirators. Leave the area immediately if (1) while wearing a filter or cartridge respirator you can smell, taste, or otherwise detect hydrochloric acid, (2) while wearing particulate filters abnormal resistance to breathing is experienced, or (3) eye irritation occurs while wearing a full facepiece respirator. Check to make sure the respirator-to-face seal is still good. If it is, replace the filter or cartridge. If the seal is no longer good, you may need a new respirator.

Where the potential exists for exposure over 20 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 50 ppm is immediately dangerous to life and health. If the possibility of exposure above 50 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

| | |
|---|--|
| Physical state | Colorless liquid |
| Odor | Alcoholic odor |
| Odor threshold | No data available |
| pH | No data available |
| Melting point/freezing point | -114°C (-173.2°F) |
| Initial boiling point and boiling range | 78-80°C (172-176°F) |
| Flash point | 13°C (55.4°F) Closed cup |
| Evaporation rate | 1.7 (Ethyl Alcohol) |
| Flammability (solid, gas) | Liquid is flammable |
| Upper flammability or explosive limits | 19% |
| Lower flammability or explosive limits | 3% |
| Vapor pressure | No data available |
| Vapor density | 1.6 (Ethyl Alcohol) |
| Relative density | 0.789 |
| Solubility(ies) | Miscible with water and many organic liquids |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |

10. STABILITY AND REACTIVITY
10.1 Reactivity

No data available

Part Number: 91012

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. Hydrochloric acid may react explosively with alcohols; hydrogen cyanide; potassium permanganate; sodium; and tetraselenium tetranitride, and may ignite on contact with fluorine; hexalithium disilicide; metal acetylides and carbides. Hydrochloric acid reacts with oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine and bromine) to form toxic chlorine gas and reacts violently with strong bases (such as sodium hydroxide and potassium hydroxide). Hydrochloric acid will attack many metals (such as copper, brass, and zinc) to release flammable and explosive hydrogen gas. Hydrochloric acid will react with aldehydes and epoxides to cause violent polymerization (self-reaction). Hydrochloric acid corrodes steel.

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. Hydrochloric acid: It has been reported that 50 to 100 ppm for 1 hour is barely tolerable and that 35 ppm causes irritation of the throat. Acute inhalation exposure may cause coughing, hoarseness, inflammation and ulceration of the respiratory tract, chest pain, and pulmonary edema in humans.

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. Hydrochloric Acid: Acute oral exposure may cause corrosion of the mucous membranes, esophagus, and stomach, with nausea, vomiting, and diarrhea reported in humans.

Dermal exposure

Contact can irritate the skin.

Skin corrosion/irritation

Prolonged or repeated exposure can cause drying and cracking of the skin with peeling, redness and itching. Hydrochloric acid: Hydrochloric acid is corrosive to the skin and mucous membranes.

Serious eye damage/irritation

Contact with ethyl alcohol can irritate the eyes. Hydrochloric acid is corrosive to the eyes, skin, and mucous membranes.

Part Number: 91012

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

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.

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

Hydrochloric Acid:

LCLo human 1300 ppm/30 minutes

LC50 rat 3124 ppm/1 hour

LC50 mouse 1108 ppm/1 hour

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

Part Number: 91012

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****Proper shipping name****Hazard class****Packing group****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

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Part Number: 91012

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product Name:** **AFB, Basic Fuchsin, Ellis & Zabrowarny Stain Kit, Sol'n C: Methylene Blue Stain 0.25%, Aqueous**
Part Number: 91012
CAS-No.: Not applicable
SDS Number: 3510
- 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

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. HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture**
GHS Classification, (in accordance with 29 CFR1910.1200)
 Skin irritation, Category 2
 Serious Eye Damage/Eye irritation, Category 2
 Acute toxicity (oral), Category 4

2.2 GHS Label elements

Signal Word WARNING

Pictogram



Hazard Statement(s):

- Causes serious eye irritation
- Causes skin irritation
- Harmful if swallowed

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.

Response:

- IF ON SKIN: Gently wash with plenty of soap and water.
- Take off contaminated clothing and wash before reuse.
- If skin irritation occurs: Get medical advice/attention.
- 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.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.
- Specific treatment: see first aid measures in section 4.

- 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

Part Number: 91012

Hazardous Components

| Component | | Concentration |
|-----------|---------------------|---------------|
| Name | Methylene Blue | |
| CAS-No. | 61-73-4 | <1% |
| Name | Glacial Acetic Acid | |
| CAS-No. | 64-19-7 | <1% |

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. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

IF ON SKIN: Gently wash with plenty of soap and water. Take off contaminated clothing and wash 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

| | | |
|-----------|-----------|------------|
| Health | Fire | Reactivity |
| hazard: 0 | hazard: 0 | hazard: 0 |

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.

6.2 Methods and material for containment and cleaning up

Part Number: 91012

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

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. 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 | Opaque, dark blue liquid |
| Odor | Odorless |
| Odor threshold | No data available |
| pH | No data available |
| Melting point/freezing point | ca. 0°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 |

Part Number: 91012

| | |
|--|-------------------|
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | Similar to water |
| Solubility(ies) | Water soluble |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |

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, strong reducing agents, strong bases, alkali iodides, and dichromates.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen chloride gas, and chlorine gas. May produce irritating and toxic fumes when heated.

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

Methylene blue may be irritating to skin.

Serious eye damage/irritation

Methylene blue may cause irritation to the eyes.

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

Part Number: 91012

No data available

Aspiration hazard

No data available

Acute toxicity

Methylene Blue:

LD50 rat oral 1180 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

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12.4 Mobility in soil

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12.5 Other adverse effects

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13. DISPOSAL CONSIDERATIONS
13.1 Waste disposal methods
Contents

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Contaminated packaging

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14. TRANSPORT INFORMATION
14.1 DOT (US)

| | |
|------------------------------|-------------------|
| UN-Number | XX |
| Proper shipping name | XX |
| Hazard class | XX |
| Packing group | XX |
| Environmental hazards | No data available |

15. REGULATORY INFORMATION
15.1 No data available

16. OTHER INFORMATION

Preparation Information

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Part Number: 91012

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