SAFETY DATA SHEET

1. IDENTIFICATION

1.1. Product Name
Stemgent® Alkaline Phosphatase Staining Kit II

1.2. Catalog Number
00-0055

1.3. Uses and restrictions
For research use only. Not for use in diagnostic or therapeutic applications

1.4. Manufacturer/Supplier
Stemgent, Inc.
4 Hartwell Place
Lexington, MA 02421 USA
(617) 245-0000

1.5. In Case of Emergency
• For medical emergencies, contact your local emergency center.
• For transportation emergencies, contact your local transportation authorities.
• For other non-medical or non-environmental emergencies please call
  (617) 245-0030, 8:00 am-4:00 pm EST, Monday – Friday.

2. HAZARDS IDENTIFICATION

2.1. Classification
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
• Flammable liquids (Category 4), H227
• Acute toxicity, Oral (Category 4), H302
• Skin irritation (Category 2), H315
• Serious eye damage (Category 1), H318
• Skin sensitization (Category 1), H317
• Carcinogenicity (Category 1A), H350
• Specific target organ toxicity – single exposure (Category 1), H370

2.2. Signal Word
Danger

2.3. Symbol

2.4. Hazard Statement(s)
• H227
  Combustible liquid.
• H302
  Harmful if swallowed.
• H315
  Causes skin irritation.
• H317
  May cause an allergic skin reaction.
• H318
  Causes serious eye damage.
• H341
  Suspected of causing genetic defects.
• H350
  May cause cancer.
• H370
  Causes damage to organs.

2.5. Precautionary Statement(s)
• P201
  Obtain special instructions before use.
• P202
  Do not handle until all safety precautions have been read and understood.
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- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash skin thoroughly after handling/
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P312 +P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338+ p310 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.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container to an approved waste disposal plant.

2.6. Hazards not otherwise classified (HNOC) or not covered by GHS

3. COMPOSITION/INFORMATION ON INGREDIENTS
Refer to components SDS.

4. FIRST AID MEASURES
Refer to components SDS.

5. FIRE FIGHTING MEASURES
Refer to components SDS.

6. ACCIDENTAL RELEASE MEASURES
Refer to components SDS.

7. HANDLING AND STORAGE
7.1 Precautions for safe handling
- Avoid inhalation, contact with eyes, skin, and clothing.
- Avoid prolonged or repeated exposure.
- Keep in well ventilated area
- For other precautions see section 2.5.
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7.1 Conditions for safe storage, including any incompatibilities

Store at 4°C. Keep containers tightly closed in a dry and well-ventilated place. Containers which are open must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Refer to components SDS.

9. PHYSICAL/ CHEMICAL PROPERTIES
Refer to components SDS.

10. STABILITY/REACTIVITY
Refer to components SDS.

11. TOXICOLOGICAL INFORMATION
Refer to components SDS.

12. ECOLOGICAL INFORMATION
Refer to components SDS.

13. DISPOSAL CONSIDERATIONS
Refer to components SDS.

14. TRANSPORT INFORMATION
This product is considered non hazardous for transport.

15. REGULATORY INFORMATION

U.S. Federal Regulations
- SARA 313 components
  
  The following components are subject to reporting levels established by SARA Title III, Section 313:
  - Methanol, CAS-No. 67-56-1, Revision Date: 2007-07-01
  - Formaldehyde, CAS-No. 50-00-0, Revision Date: 2007-07-01

- SARA 302 components

- SARA 311/312 Hazards

- Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61)

U.S. State Regulations
- California Proposition 65

The following components are subject to reporting levels established by SARA Title III, Section 302:
- Formaldehyde, CAS-No. 50-00-0, Revision Date: 2007-07-01

Fire hazard, Acute health hazard, Chronic health hazard

Does not contain any components subject to reporting.
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- Massachusetts Right To Know Components
  - Formaldehyde, CAS-No. 50-00-0
  - Methanol, CAS-No. 67-56-1
  - Hydrochloric acid, CAS No. 7647-01-0

- Pennsylvania Right To Know Components
  - Formaldehyde, CAS-No. 50-00-0
  - Methanol, CAS-No. 67-56-1
  - Disodium hydrogenorthophosphate, CAS-No. 7558-79-4
  - Sodium nitrite, CAS No. 7632-00-0
  - Hydrochloric acid, CAS No. 7647-01-0
  - 2-Amino-2-methylpropane-1,3-diol, CAS No. 115-69-5
  - Diethylene glycol, CAS No. 111-46-6

- New Jersey Right To Know Components
  - Formaldehyde, CAS-No. 50-00-0
  - Methanol, CAS-No. 67-56-1
  - Disodium hydrogenorthophosphate, CAS-No. 7558-79-4
  - Sodium nitrite, CAS No. 7632-00-0
  - Hydrochloric acid, CAS No. 7647-01-0
  - 2-Amino-2-methylpropane-1,3-diol, CAS No. 115-69-5
  - Diethylene glycol, CAS No. 111-46-6

WHMIS Hazard Class
D-1A, D-2A,D-2B, D-E, B-2A

16. OTHER INFORMATION

Components
09-0042 Fix Solution
09-0043 AP Staining Solution A
09-0065 AP Staining Solution B
09-0066 AP Staining Solution C

Notice
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Stemgent, Inc. shall not be held liable for any damage resulting from handling or from contact with the product. See Stemgent, Inc. website for terms and conditions of sale.

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Prepared by
Quality Control

END OF SAFETY DATA SHEET