1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers
Product name: ProteoSilver™ Silver Stain Kit
Product Number: PROTSIL1
Brand: Sigma

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet
Company: Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103 USA
Telephone: +1 800-325-5832
Fax: +1 800-325-5052

1.4 Emergency telephone number
Emergency Phone #: (314) 776-6555

This is a summary MSDS for a kit, for the full MSDS for each of the components listed in section 16 please visit our website.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3), H226
Oxidizing liquids (Category 2), H272
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 1), H370
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements
Pictogram

Signal word: Danger
Hazard statement(s)
H226 Flammable liquid and vapour.
H272 May intensify fire; oxidiser.
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H370 Causes damage to organs.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220 Keep/Store away from clothing/ combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P244 No smoking in the vicinity.
P245 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P246 Use only non-sparking tools.
P251 Use only in a well-ventilated area.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P261 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P263 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P322 Specific measures (see supplemental first aid instructions on this label).
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P361 Remove/Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391 Collect spillage.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
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.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS
Refer to component MSDS

4. FIRST AID MEASURES
Refer to component MSDS

5. FIREFIGHTING MEASURES
Refer to component MSDS
6. ACCIDENTAL RELEASE MEASURES
Refer to component MSDS

7. HANDLING AND STORAGE
7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Refer to component MSDS

9. PHYSICAL AND CHEMICAL PROPERTIES
Refer to component MSDS

10. STABILITY AND REACTIVITY
Refer to component MSDS

11. TOXICOLOGICAL INFORMATION
Refer to component MSDS

12. ECOLOGICAL INFORMATION
Refer to component MSDS

13. DISPOSAL CONSIDERATIONS
Refer to component MSDS

14. TRANSPORT INFORMATION
DOT (US)
UN number: 3316 Class: 9 Packing group: II
Proper shipping name: Chemical kits
Reportable Quantity (RQ): 11 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN number: 3316 Class: 9 Packing group: II EMS-No: F-A, S-P
Proper shipping name: CHEMICAL KIT
Marine pollutant: No

IATA
UN number: 3316 Class: 9 Packing group: II
Proper shipping name: Chemical kit

15. REGULATORY INFORMATION
SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
16. OTHER INFORMATION

Kit Components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Supplier</th>
<th>Code</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProteoSilver™ Silver Solution</td>
<td>SIGMA</td>
<td>P3739</td>
<td>Ox. Liq. 2; Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H272, H314, H410</td>
</tr>
<tr>
<td>ProteoSilver™ Sensitizer</td>
<td>SIGMA</td>
<td>P3614</td>
<td>Eye Irrit. 2A; H319</td>
</tr>
<tr>
<td>ProteoSilver™ Developer 1</td>
<td>SIGMA</td>
<td>P3864</td>
<td>Eye Irrit. 2A; H319</td>
</tr>
<tr>
<td>ProteoSilver™ Developer 2</td>
<td>SIGMA</td>
<td>P3989</td>
<td>Flam. Liq. 3; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Carc. 2; STOT SE 1; Aquatic Acute 3; H226, H301 + H311 + H331, H314, H317, H351, H370, H402</td>
</tr>
<tr>
<td>ProteoSilver™ Stop Solution</td>
<td>SIGMA</td>
<td>P4114</td>
<td>Flam. Liq. 3; Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Carc. 2; STOT SE 1; Aquatic Acute 3; H226, H301 + H311 + H331, H314, H317, H351, H370, H402</td>
</tr>
</tbody>
</table>

HMIS Rating
- Health hazard: 3
- Chronic Health Hazard: *
- Flammability: 2
- Physical Hazard: 3

NFPA Rating
- Health hazard: 3
- Fire Hazard: 2
- Reactivity Hazard: 0

Further information
Copyright 2014 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.
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. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 07/09/2014 Print Date: 07/28/2016