




### Section 1. Identification of the Substance/Mixture and the Company

|   |  |   |
|---|--|---|
| <b>1.1 Product Identifier</b>                               | Product Name: Alcian Yellow Solution<br>Product Number: ANY  |   |
| <b>1.2 Intended use</b>                                     | EN: Laboratory reagent. For professional use only.<br>DA: Laboratoriereagens. Kun til professionelt brug.<br>DE: Laboratoriumreagens. Alleen voor professioneel gebruik.<br>EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο.<br>ES: Reactivo de laboratorio. Sólo para uso profesional.<br>FR: Réactif de laboratoire. Pour un usage professionnel uniquement.<br>IT: Laboratorio di reagente. Solo per uso professionale.<br>NL: Laboratoriumreagens. Alleen voor professioneel gebruik.<br>PT: Reagente de laboratório. Para uso profissional.<br>SV: Laboratoriereagens. Endast för yrkesmässig användning. |   |
| <b>1.3 Details of the supplier of the safety data sheet</b> | <b>Manufacturer</b>  | ScyTek Laboratories, Inc.                         |
|   | <b>Address</b>   | 205 South 600 West<br>Logan, Utah 84321<br>U.S.A. |
|   | <b>Phone Number</b>  | 800-729-8350                                      |
|   | <b>Fax Number</b>  | 435-755-0015                                      |
|   | <b>e-mail</b>  | msds@scytek.com                                   |
|   | <b>Website</b>   | scytek.com  |

### Section 2. Hazards Identification

|   |  |   |
|---|--|---|
| <b>2.1 Classification: Regulation (EC) No 1272/2008 (CLP)</b> | Flammable Liquids (Category 2) – H225<br>Skin irritation (Category 2) – H315<br>Eye irritation (Category 2) – H320 |   |
| <b>Classification: OSHA 29 CFR 1910.1200 HCS</b>              | Flammable Liquids (Category 2) – H225<br>Skin irritation (Category 2) – H315<br>Eye irritation (Category 2) – H320 |   |
| <b>Classification: Directive 1999/45/EC</b>                   |                                 | <b>F R11, R36/38, S1/2, S7, S16, S45</b><br>EN: Highly flammable<br>DA: Meget brandfarlig<br>DE: Leichtentzündlich<br>EL: Πολύ εύφλεκτο<br>ES: Fácilmente inflamable<br>FR: Facilement inflammable<br>IT: Facilmente infiammabile<br>NL: Licht ontvlambaar<br>PT: Facilmente inflamável<br>SV: Mycket brandfarligt<br><br>For full text of R- & S- phrases: see Section 15. |






|                                 |  |   |  |
|---------------------------------|--|---|--|
| <b>2.2 Label Elements</b>       | Pictogram(s):<br>   |   |  |
|                                 | Signal Word:   | Warning   |  |
|                                 | Hazard Statement(s):   | H303 – May be harmful if swallowed.<br>H320 – Causes eye irritation<br>H225 - Highly flammable liquid and vapour  |  |
|                                 | Precautionary statement(s):  | P302+ P352 - IF ON SKIN: Wash with plenty of soap and water<br>P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes.<br>P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |  |
| <b>NFPA Scale: 0-4</b>          |    |   |  |
| <b>HMIS (U.S.A.) Scale: 0-4</b> | HEALTH   | 1   |  |
|                                 | FLAMMABILITY   | 2   |  |
|                                 | PHYSICAL HAZARD  | 0   |  |
|                                 | PERSONAL PROTECTION  | B   |  |
| <b>2.3 Other Hazards</b>        | <b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT.<br><b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB. |   |  |


### Section 3. Composition and Information on Ingredients

#### 3.2 Chemical Description: Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*May contain additional active ingredients at concentrations <0.1%/w/v.

| Hazardous Ingredients: | CAS#       | EC#          | GHS Symbols   | %     |
|------------------------|------------|--------------|---|-------|
| Ethyl Alcohol          | 64-17-5    | 200-578-6    | <br>Danger. 3 H225 Highly flammable liquid and vapour.   | ≤ 50  |
| Acetic Acid            | 64-19-7    | 200-580-7    | <br>Warning. 3, H226 Flammable liquid and vapour.<br><br>Danger. 1A H314 Causes severe skin burns and eye damage. | ≤ 3.0 |
| Alcian Yellow          | 61968-76-1 |              | <br>Warning. 2 H315 Causes skin irritation. 2 H319 Causes serious eye irritation. 3 H335 May cause respiratory irritation.   | ≤ 1.0 |
| Isopropyl Alcohol      | 67-63-0    | 603-117-00-0 | <br>Warning. 2. H319 Causes serious eye irritation. 3. H336  | ≤3.0  |

|  |  |  |  |
|--|--|--|--|
|  |  |  | May cause drowsiness or dizziness.<br> Danger. 3 H225 Highly flammable liquid and vapour. |
|--|--|--|--|

### Section 4. First Aid Measures

#### 4.1 Description of first aid measures

**Eye Contact:** Check for and remove contact lenses. Immediately flush eyes with copious amounts of water. Get medical attention if irritation persists.

**Skin Contact:** Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.

**Inhalation:** If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms worsen.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention if you feel unwell.

#### 4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 and 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

### Section 5. Fire Fighting Measures

|  |   |
|--|---|
| <b>5.1 Extinguishing Media</b>                                   | Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.                              |
| <b>5.2 Special hazards arising from the substance or mixture</b> | May produce flammable vapors under fire conditions.   |
| <b>5.3 Advice for firefighters</b>                               | As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.) |

### Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.

#### 6.2 Environmental precautions

Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.

#### 6.3 Methods and materials for containment and cleaning up

Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

### Section 7. Handling and Storage

#### 7.1 Precautions for safe handling.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Avoid breathing vapor.

#### 7.2 Conditions for safe storage, including any incompatibilities.

Store in well ventilated area.

Keep container tightly closed.

Store at 15-30 °C.

#### 7.3 Specific end use(s).

See section 1.2

**Section 8. Exposure Controls / Personal Protection**

|                               |   |
|-------------------------------|---|
| <b>8.1 Control parameters</b> | <p><b>Exposure Limits:</b></p> <p>Acetic Acid:<br/> <b>ACGIH TLV:</b> 15ppm (37 mg/m<sup>3</sup>) STEL<br/>                           10 ppm (25 mg/m<sup>3</sup>) TWA<br/> <b>NIOSH REL:</b> 15 ppm (37 mg/m<sup>3</sup>) STEL<br/>                           10 ppm (25 mg/m<sup>3</sup>) TWA<br/> <b>OSHA PEL:</b> 10 ppm (25 mg/m<sup>3</sup>) TWA</p> <p>Ethyl Alcohol:<br/> <b>NIOSH REL:</b> 1000 ppm (1900 mg/m<sup>3</sup>) TWA<br/> <b>OSHA PEL:</b> 1000 ppm (1900 mg/m<sup>3</sup>) TWA<br/> <b>ACGIH TLV:</b> 1000ppm (1900mg/m<sup>3</sup>) TWA</p> <p>Isopropyl Alcohol:<br/> <b>NIOSH REL:</b> TWA 400 ppm (980 mg/m<sup>3</sup>) ST 500 ppm (1225 mg/m<sup>3</sup>)<br/> <b>OSHA PEL:</b> TWA 400 ppm (980 mg/m<sup>3</sup>)<br/> <b>ACGIH TLV:</b> TWA 200 ppm STEL 400 ppm</p> |
| <b>8.2 Exposure controls</b>  | <p><b>Personal Protective Equipment (PPE):</b></p> <p><b>Eye/Face protection.</b><br/>         Safety glasses or goggles are required.</p> <p><b>Skin protection.</b><br/>         Protective clothing is required.</p> <p><b>Hand protection.</b><br/>         Chemical resistant gloves are required.<br/>         Glove material must be resistant to the components of this product.<br/>         Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove.</p> <p><b>Respiratory protection.</b><br/>         Avoid breathing vapor.</p> <p><b>Environmental exposure controls.</b><br/>         Avoid releasing large quantities into the environment.<br/>         No additional information.</p>  |
| <b>Engineering Controls</b>   | <p>Working area should be adequately large and well ventilated to prevent concentration of vapors.<br/>         Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.</p>   |

**Section 9. Physical and Chemical Properties**

|  |                    |
|--|--------------------|
| <b>Physical State</b>                  | Liquid             |
| <b>Color</b>                           | Yellow transparent |
| <b>Odor</b>                            | Mild alcohol odor. |
| <b>Odor Threshold</b>                  | Unknown            |
| <b>pH</b>                              | Unknown            |
| <b>Melting Point/ Freezing Point</b>   | Unknown            |
| <b>Initial Boiling Point</b>           | Unknown            |
| <b>Flash Point</b>                     | Unknown            |
| <b>Evaporation Rate</b>                | Unknown            |
| <b>Flammability (solid, gas)</b>       | Unknown            |
| <b>Upper/Lower Flammability Limits</b> | Unknown            |

|   |                |
|---|----------------|
| <b>Vapor Pressure</b>                             | Unknown        |
| <b>Vapor Density</b>                              | Unknown        |
| <b>Relative Density</b>                           | Unknown        |
| <b>Solubility(ies)</b>                            | Water          |
| <b>Partition Coefficient:<br/>n-octanol/water</b> | Unknown        |
| <b>Auto-Ignition Temperature</b>                  | Unknown        |
| <b>Decomposition Temperature</b>                  | Unknown        |
| <b>Viscosity</b>                                  | Unknown        |
| <b>Explosive Properties</b>                       | Not explosive. |
| <b>Oxidizing Properties</b>                       | Unknown        |

### Section 10. Stability and Reactivity

|  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | No relevant data available.                     |
| <b>10.2 Chemical Stability</b>                 | Stable under normal temperatures and pressures. |
| <b>10.3 Possibility of Hazardous Reactions</b> | No hazardous reactions known.                   |
| <b>10.4 Conditions to Avoid</b>                | Fire, static electricity, direct sunlight.      |
| <b>10.5 Incompatible Materials</b>             | Strong oxidizing agents.                        |
| <b>10.6 Hazardous Decomposition Materials</b>  | None known                                      |

### Section 11. Toxicological Information

|   |   |
|---|---|
| <b>11.1 Information on Toxicological Effects.</b> | <p><b>Acute Toxicity.</b><br/>No relevant data available</p> <p><b>Skin Corrosion/Irritation.</b><br/>Irritating to skin and mucous membranes.</p> <p><b>Serious Eye Damage/Irritation.</b><br/>Irritating to eye.</p> <p><b>Respiratory or skin sensitization.</b><br/>No relevant data available.</p> <p><b>Germ Cell Mutagenicity.</b><br/>No relevant data available.</p> |
| <b>Carcinogenicity.</b>                           | <p><b>International Agency for Research on Cancer (IARC).</b><br/>None of the components are listed.</p> <p><b>National Toxicology Program (NTP).</b><br/>None of the components are listed.</p>  |

### Section 12. Ecological Information

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|--|---|
| <b>12.1 Toxicity</b>                       | <p><b>Fish:</b> No relevant studies identified.</p> <p><b>Crustacea:</b> No relevant studies identified.</p> <p><b>Algae/Aquatic Plants:</b> No relevant studies identified.</p> <p><b>Other Organisms:</b> No relevant studies identified.</p> |
| <b>12.2 Persistence and Degradability.</b> | No relevant studies identified.   |
| <b>12.3 Bioaccumulative Potential.</b>     | No relevant studies identified.   |

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| <b>12.4 Mobility in Soil.</b>                   | Miscible in water. May spread in water systems. This component is non-volatile.  |
| <b>Additional Remarks</b>                       | None.  |
| <b>12.5 Results of PBT and vPvB Assessment.</b> | <b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT.<br><b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB. |

### Section 13. Disposal Considerations

|  |  |
|--|--|
| <b>13.1 Waste Disposal Methods.</b>    | Sewage disposal is discouraged. Waste should not be disposed of by release to sewers. Dispose waste in accordance with federal, state and local environmental control regulations. |
| <b>Product/Packaging Disposal.</b>     | Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.  |
| <b>Other Disposal Recommendations.</b> | No relevant data available.  |

### Section 14. Transport Information

|   |  |
|---|--|
| <b>14.1 UN Number<br/>DOT, IATA,IMDG, ADR</b>               | DOT: 1993<br>ADR/RID: 1993<br>IMDG: 1993<br>IATA: 1993   |
| <b>14.2 UN Proper Shipping Name<br/>DOT, IATA,IMDG, ADR</b> | ADR/RID: FLAMMABLE LIQUID, N.O.S. (ETHANOL)<br>IMDG: FLAMMABLE LIQUID, N.O.S. (ETHANOL)<br>IATA: FLAMMABLE LIQUID, N.O.S. (ETHANOL)<br>DOT: FLAMMABLE LIQUID, N.O.S. (ETHANOL) |
| <b>14.3 Transport Hazard Class(es)</b>                      | <b>DOT:</b> III, Flammable liquids.<br><b>IATA:</b> III, Flammable liquids.<br><b>IMDG:</b> III, Flammable liquids.<br><b>ADR/RID:</b> III, Flammable liquids.                 |
| <b>14.4 Packing Group<br/>DOT, IATA,IMDG, ADR</b>           | ADR/RID: II<br>IMDG: II<br>IATA: II<br>DOT: II   |
| <b>14.5 Environmental Hazards</b>                           | <b>Marine Pollutant:</b> No  |
| <b>14.6 Special Precautions for User</b>                    | Not applicable.  |

### Section 15. Regulatory Information

|   |  |
|---|--|
| <b>15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.</b> |  |
| <b>Extremely Hazardous Substances; Section 355</b>  | None of the components in this mixture are listed.   |
| <b>Toxic Substances Control Act; TSCA</b>   | All of the components in this mixture are listed.  |
| <b>California Proposition 65</b>  | None of the components in this mixture are listed.   |
| <b>Right To Know Components</b>   | None of the components in this mixture are listed.   |
| <b>15.2 Chemical Safety Assessment</b>  | No Chemical Safety Assessment has been carried out for this substance/mixture by ScyTek Laboratories, Inc. |
| <b>R phrases</b>  |  |

|                         |  |
|-------------------------|--|
|                         | <p><b>R11</b><br/>EN: Highly flammable.<br/>DA: Meget brandfarlig.<br/>DE: Leichtentzündlich.<br/>EL: Πολύ εύφλεκτο.<br/>ES: Fácilmente inflamable.<br/>FR: Facilement inflammable.<br/>IT: Facilmente infiammabile.<br/>NL: Licht ontvlambaar.<br/>PT: Facilmente inflamável.<br/>SV: Mycket brandfarligt.</p> <p><b>R36/38</b><br/>EN: Irritating to eyes and skin.<br/>DA: Irriterer øjnene og huden<br/>DE: Reizt die Augen und die Haut.<br/>EL: Ερεθίζει τα μάτια και το δέρμα.<br/>ES: Irrita los ojos y la piel.<br/>FR: Irritant pour les yeux et la peau.<br/>IT: Irritante per gli occhi e la pelle.<br/>NL: Irriterend voor de ogen en de huid.<br/>PT: Irritante para os olhos e pele.<br/>SV: Irriterar ögonen och huden.</p>  |
| <p><b>S phrases</b></p> | <p><b>S1/2</b><br/>EN: Keep locked up and out of the reach of children.<br/>DA: Opbevares under lås og utilgængeligt for børn.<br/>DE: Unter Verschluss und für Kinder unzugänglich aufbewahren.<br/>EL: Φυλάξτε το κλειδωμένο και μακριά από παιδιά.<br/>ES: Consérvese bajo llave y manténgase fuera del alcance de los niños.<br/>FR: Conserver sous clef et hors de portee des enfants.<br/>IT: Conservare sotto chiave e fuori della portata dei bambini.<br/>NL: Achter slot en buiten bereik van kinderen bewaren.<br/>PT: Guardar fechado à chave e fora do alcance das crianças.<br/>SV: Förvaras i låst utrymme och oåtkomligt för barn.</p> <p><b>S7</b><br/>EN: Keep container tightly closed.<br/>DA: Emballagen skal holdes tæt lukket.<br/>DE: Behälter dicht geschlossen halten.<br/>EL: Το δοχείο να διατηρείται ερμητικά κλεισμένο.<br/>ES: Manténgase el recipiente bien cerrado.<br/>FR: Conserver le récipient bien fermé.<br/>IT: Conservare il recipiente ben chiuso.<br/>NL: In goed gesloten verpakking bewaren.<br/>PT: Manter o recipiente bem fechado.<br/>SV: Förpackningen förvaras väl tillsluten.</p> <p><b>S16</b><br/>EN: Keep away from sources of ignition - No smoking.<br/>DA: Holdes væk fra antændelseskilder - Rygning forbudt.<br/>DE: Von Zündquellen fernhalten - Nicht rauchen.<br/>EL: Μακριά από πηγές ανάφλεξης - Απαγορεύεται το κάπνισμα.<br/>ES: Conservar alejado de toda llama o fuente de chispas - No fumar.<br/>FR: Conserver a l'ecart de toute flamme ou source d'etincelles - Ne pas fumer.<br/>IT: Conservare lontano da fiamme e scintille - Non fumare.<br/>NL: Verwijderd houden van ontstekingsbronnen - Niet roken.<br/>PT: Manter afastado de qualquer chama ou fonte de ignição - Não fumar.<br/>SV: Förvaras åtskilt från antändningskällor - Rökning förbjuden.</p> |

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|--|---|
|  | <p><b>S45</b><br/> EN: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).<br/> DA: Ved ulykkestilfælde eller ved ildebefindende er omgående lægebehandling nødvendig; vis etiketten, hvis det er muligt.<br/> DE: Bei Unfall oder Unwohlsein sofort Arzt zuziehen (wenn möglich, dieses Etikett vorzeigen).<br/> EL: Σε περίπτωση ατυχήματος ή αν αισθανθείτε αδιαθεσία ζητήστε αμέσως ιατρική συμβουλή (δείξτε την ετικέτα αν είναι δυνατό).<br/> ES: En caso de accidente o malestar, acúdase inmediatamente al médico (si es posible, muéstresele la etiqueta).<br/> FR: En cas d'accident ou de malaise, consulter immédiatement un medecin (si possible lui montrer l'etiquette).<br/> IT: In caso di incidente o di malessere consultare immediatamente il medico (se possibile, mostrargli l'etichetta).<br/> NL: Bij een ongeval of indien men zich onwel voelt, onmiddellijk een arts raadplegen (indien mogelijk hem dit etiket tonen).<br/> PT: Em caso de acidente ou de indisposição, consultar imediatamente o médico (se possível mostrar-lhe o rótulo).<br/> SV: Vid olycksfall, illamående eller annan påverkan, kontakta omedelbart läkare. Visa om möjligt etiketten.</p> |
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**Section 16. Other Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.