






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

<b>Product Name</b>	Acid Alcohol Solution (0.5%)
<b>Product Number</b>	AAL
<b>Intended Use</b>	EN: Laboratory reagent. For professional use only. DA: Laboratoriereagens. Kun til professionelt brug. DE: Laboratoriumreagens. Alleen voor professioneel gebruik. EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο. ES: Reactivo de laboratorio. Sólo para uso profesional. FR: Réactif de laboratoire. Pour un usage professionnel uniquement. IT: Laboratorio di reagente. Solo per uso professionale. NL: Laboratoriumreagens. Alleen voor professioneel gebruik. PT: Reagente de laboratório. Para uso profissional. SV: Laboratoriereagens. Endast för yrkesmässig användning.
<b>Manufacturer</b>	ScyTek Laboratories, Inc.
<b>Address</b>	205 South 600 West Logan, Utah 84321 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>Classification:</b> Regulation (EC) No 1272/2008 (CLP)	 GHS02 Flammable   GHS07 Irritant.
<b>Classification:</b> Directive 1999/45/EC	 <b>R10</b> EN: Flammable. DA: Brandfarlig. DE: Entzündlich. EL: Εύφλεκτο. ES: Inflamable. FR: Inflammable. IT: Infiammabile. NL: Ontvlambaar. PT: Inflamável. SV: Brandfarligt.






	 <p><b>Xi</b>  EN: Irritant  DA: Lokalirriterende  DE: Reizend  EL: Ερεθιστικό  ES: Irritante  FR: Irritant  IT: Irritante  NL: Irriterend  PT: Irritante  SV: Irriterande</p> <p>For full text of R- &amp; S- phrases: see Section 15.</p>								
<b>NFPA</b> Scale: 0-4									
<b>HMIS (U.S.A.)</b> Scale: 0-4	<table border="1"> <tr> <td>HEALTH</td> <td style="text-align: center;"><b>3</b></td> </tr> <tr> <td>FLAMMABILITY</td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td style="text-align: center;"><b>0</b></td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;"><b>G</b></td> </tr> </table>	HEALTH	<b>3</b>	FLAMMABILITY	<b>0</b>	PHYSICAL HAZARD	<b>0</b>	PERSONAL PROTECTION	<b>G</b>
HEALTH	<b>3</b>								
FLAMMABILITY	<b>0</b>								
PHYSICAL HAZARD	<b>0</b>								
PERSONAL PROTECTION	<b>G</b>								
<b>Other Hazards</b>	<b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT. <b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.								

### Section 3. Composition and Information on Ingredients

**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	%
Ethanol	64-17-5	200-578-6	 Flam. Liq. 2, H225	≤ 65
Water	7732-18-5	231-791-2	n/a	≥ 30
Hydrochloric Acid	7647-01-0	231-595-7	  Resp irritation. 3. H335 Corrosive. 1B. H314	0.5
Isopropyl Alcohol	67-63-0	200-661-7	  Irritant. 2. H319; 3. H336 Flam. Liq. 3, H225	≤ 4.0

### Section 4. First Aid Measures

**Eye Contact:** Check for and remove contact lenses. Immediately flush eyes with copious amounts of water and get immediate medical attention.

**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 immediate medical attention.

### Section 5. Fire Fighting Measures

<b>Extinguishing Media</b>	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
<b>Unusual Fire and Explosion Hazards</b>	No unusual fire or explosion hazards expected.
<b>General Information</b>	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

### Section 6. Accidental Release Measures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

### Section 7. Handling and Storage

**Precautions for safe handling.**  
 Avoid contact with skin and eyes.  
 Wash thoroughly after handling.  
 Avoid breathing vapor.

**Conditions for safe storage, including any incompatibilities.**  
 Store in well ventilated area.  
 Keep container tightly closed.  
 Store at 15-30 °C.

**Specific end use(s).**  
 Not applicable.

### Section 8. Exposure Controls / Personal Protection

<b>Exposure Limits</b>	N/A
<b>Personal Protection</b>	<p><b>Eye/Face protection.</b>          Safety glasses or goggles are required.</p> <p><b>Skin protection.</b>          Protective clothing is required.</p> <p><b>Hand protection.</b>          Chemical resistant gloves are required.          Glove material must be resistant to the components of this product.          Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove.</p> <p><b>Respiratory protection.</b>          Avoid breathing vapor.</p> <p><b>Environmental exposure controls.</b>          Avoid releasing large quantities into the environment.</p>

	No additional information.
<b>Engineering Controls</b>	Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

### Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	Mild alcohol odor.
<b>Odor Threshold</b>	Unknown
<b>pH</b>	Acidic
<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: 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>Reactivity</b>	No relevant data available.
<b>Chemical Stability</b>	Stable under normal temperatures and pressures.
<b>Possibility of Hazardous Reactions</b>	No hazardous reactions known.
<b>Conditions to Avoid</b>	Fire, static electricity, direct sunlight.
<b>Incompatible Materials</b>	Metals, strong bases, acetyl chloride, acetyl bromide, nitric acid, iodine-mercuric oxide, hydrogen-palladium, chromic anhydride, magnesium.
<b>Hazardous Decomposition Materials</b>	Hydrogen chloride, oxides of carbon.

### Section 11. Toxicological Information

<b>Information on Toxicological Effects.</b>	<b>Acute Toxicity.</b> No relevant data available.
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	<p><b>Skin Corrosion/Irritation.</b> Irritating to skin and mucous membranes.</p> <p><b>Serious Eye Damage/Irritation.</b> Irritating to eye.</p> <p><b>Respiratory or skin sensitization.</b> No relevant data available.</p> <p><b>Germ Cell Mutagenicity.</b> No relevant data available.</p>
<b>Carcinogenicity.</b>	<p><b>International Agency for Research on Cancer (IARC).</b> Hydrochloric Acid and Isopropyl alcohol: Group 3 - not classifiable as to carcinogenicity in humans.</p> <p><b>National Toxicology Program (NTP).</b> None of the components are listed.</p>

### Section 12. Ecological Information



<b>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>Persistence and Degradability.</b>	No relevant studies identified.
<b>Bioaccumulative Potential.</b>	No relevant studies identified.
<b>Mobility in Soil.</b>	No relevant studies identified.
<b>Additional Remarks</b>	None.
<b>Results of PBT and vPvB Assessment.</b>	<p><b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT.</p> <p><b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.</p>

### Section 13. Disposal Considerations

<b>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>UN Number DOT, IATA,IMDG, ADR</b>	UN1170
<b>UN Proper Shipping Name DOT, IATA,IMDG, ADR</b>	Ethanol Solutions
<b>Transport Hazard Class(es)</b>	DOT

	 <p><b>Class 3 Flammable</b> <b>Label 3</b></p> <p><b>IATA, IMDG, ADR</b></p>  <p><b>Class 3 Flammable</b> <b>Label 3</b></p>
<b>Packing Group DOT, IATA,IMDG, ADR</b>	II
<b>Environmental Hazards</b>	<b>Marine Pollutant:</b> No
<b>Special Precautions for User</b>	Not applicable.
<b>ADR Hazard Identification Number (Kemler Code).</b>	Not applicable.
<b>IMDG Segregation Group</b>	Acids 1789
<b>Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code.</b>	Not applicable.

### Section 15. Regulatory Information

#### Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.

<b>Specific Toxic Chemical Listings; Section 313</b>	<b>Listed on Right to Know:</b> Ethanol. California Massachusetts Minnesota New Jersey Pennsylvania
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	<p><b>Listed on Right to Know:</b> Isopropyl Alcohol. California Massachusetts Minnesota New Jersey Pennsylvania</p> <p><b>Listed on Right to Know:</b> Hydrochloric Acid. California Massachusetts Minnesota New Jersey Pennsylvania</p>
<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>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>R10</b> EN: Flammable. DA: Brandfarlig. DE: Entzündlich. EL: Εύφλεκτο. ES: Inflamable. FR: Inflammable. IT: Infiammabile. NL: Ontvlambaar. PT: Inflamável. SV: Brandfarligt.</p> <p><b>R22</b> EN: Harmful if swallowed. DA: Farlig ved indtagelse. DE: Gesundheitsschädlich beim Verschlucken. EL: Επιβλαβές σε περίπτωση καταπόσεως. ES: Nocivo por ingestión. FR: Nocif en cas d'ingestion. IT: Nocivo per ingestione. NL: Schadelijk bij opname door de mond. PT: Nocivo por ingestão. SV: Farligt vid förtäring.</p> <p><b>R36/38</b> EN: Irritating to eyes and skin. DA: Irriterer øjnene og huden DE: Reizt die Augen und die Haut. EL: Ερεθίζει τα μάτια και το δέρμα. ES: Irrita los ojos y la piel. FR: Irritant pour les yeux et la peau. IT: Irritante per gli occhi e la pelle. NL: Irriterend voor de ogen en de huid. PT: Irritante para os olhos e pele. SV: Irriterar ögonen och huden.</p>
<b>S phrases</b>	<p><b>S1/2</b> EN: Keep locked up and out of the reach of children. DA: Opbevares under lås og utilgængeligt for børn. DE: Unter Verschluss und für Kinder unzugänglich aufbewahren.</p>

EL: Φυλάξτε το κλειδωμένο και μακριά από παιδιά.  
 ES: Consérvese bajo llave y manténgase fuera del alcance de los niños.  
 FR: Conserver sous clef et hors de portee des enfants.  
 IT: Conservare sotto chiave e fuori della portata dei bambini.  
 NL: Achter slot en buiten bereik van kinderen bewaren.  
 PT: Guardar fechado à chave e fora do alcance das crianças.  
 SV: Förvaras i låst utrymme och oåtkomligt för barn.

**S16**

EN: Keep away from sources of ignition - No smoking.  
 DA: Holdes væk fra antændelseskilder - Rygning forbudt.  
 DE: Von Zündquellen fernhalten - Nicht rauchen.  
 EL: Μακριά από πηγές ανάφλεξης - Απαγορεύεται το κάπνισμα.  
 ES: Conservar alejado de toda llama o fuente de chispas - No fumar.  
 FR: Conserver a l'ecart de toute flamme ou source d'etincelles - Ne pas fumer.  
 IT: Conservare lontano da fiamme e scintille - Non fumare.  
 NL: Verwijderd houden van ontstekingsbronnen - Niet roken.  
 PT: Manter afastado de qualquer chama ou fonte de ignição - Não fumar.  
 SV: Förvaras åtskilt från antändningskällor - Rökning förbjuden.

**S26**

EN: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 DA: Kommer stoffet i øjnene, skylles straks grundigt med vand og læge kontaktes.  
 DE: Bei Berührung mit den Augen sofort gründlich mit Wasser abspülen und Arzt konsultieren.  
 EL: Σε περίπτωση επαφής με τα μάτια πλύνετε τα αμέσως με άφθονο νερό και ζητήστε ιατρική συμβουλή.  
 ES: En caso de contacto con los ojos, lávense inmediata y abundantemente con agua y acúdase a un médico.  
 FR: En cas de contact avec les yeux, laver immédiatement et abondamment avec de l'eau et consulter un spécialiste.  
 IT: In caso di contatto con gli occhi, lavare immediatamente e abbondantemente con acqua e consultare un medico.  
 NL: Bij aanraking met de ogen onmiddellijk met overvloedig water afspoelen en deskundig medisch advies inwinnen.  
 PT: Em caso de contacto com os olhos, lavar imediata e abundantemente com água e consultar um especialista.  
 SV: id kontakt med ögonen, spola genast med mycket vatten och kontakta läkare.

**S37/39**

EN: Wear suitable gloves and eye/face protection.  
 DA: Brug egnede beskytteshandsker og -briller/ansigtsskærm under arbejdet.  
 DE: Bei der Arbeit geeignete Schutzhandschuhe und Schutzbrille/Gesichtsschutz tragen.  
 EL: Φοράτε κατάλληλα γάντια και συσκευή προστασίας ματιών/προσώπου.  
 ES: Úsense guantes adecuados y protección para los ojos/la cara.  
 FR: Porter des gants appropriés et un appareil de protection des yeux/du visage.  
 IT: Usare guanti adatti e proteggersi gli occhi/la faccia.  
 NL: Draag geschikte handschoenen en een beschermingsmiddel voor de ogen/het gezicht.  
 PT: Usar luvas e equipamento protector para os olhos /face adequados.  
 SV: Använd lämpliga skyddshandskar samt skyddsglasögon eller ansiktsskydd.

**S46**

EN: If swallowed, seek medical advice immediately and show this container or label.  
 DA: Ved indtagelse, kontakt odümgående læge og vis denne beholder eller etiket.  
 DE: Bei Verschlucken sofort ärztlichen Rat einholen und Verpackung odor Etikett vorzeigen.  
 EL: Σε περίπτωση κατάποσης ζητήστε αμέσως ιατρική συμβουλή και δείξτε αυτό το δοχείο ή την επικέτα.  
 ES: En caso de ingestión, acúdase inmediatamente al medico y muéstrele la etiqueta o el envase.  
 FR: En cas d'ingestion, consulter immédiatement un médecin et lui montrer l'emballage ou l'étiquette.  
 IT: In caso d'ingestione consultare immediatamente il medico e mostrargli il contenitore o l'etichetta.  
 NL: In geval van inslikken onmiddellijk een arts raadplegen en verpakking of etiket tonen.  
 PT: Em caso de ingestão, consultar imediata e mostrar-lhe a embalagem ou o rótulo.  
 SV: Vid förtäring kontakta genast läkare och visa denna förpackning eller etiketten.





Safety Data Sheet

**AAL-SDS**

Rev. Date: Oct. 18, 2013

**Revision: 3**

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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.