






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

Product Name	Acetic Alcohol Solution (2%)
Product Number	AAF
Intended Use	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.
Manufacturer	ScyTek Laboratories, Inc.
Address	205 South 600 West Logan, Utah 84321 U.S.A.
Phone Number	800-729-8350
Fax Number	435-755-0015
e-mail	msds@scytek.com
Website	scytek.com

Section 2. Hazards Identification

Classification: Regulation (EC) No 1272/2008 (CLP)	 GHS02 Flammable  GHS07 Irritant.
Classification: Directive 1999/45/EC	 R10 EN: Flammable. DA: Brandfarlig. DE: Entzündlich. EL: Εύφλεκτο. ES: Inflamable. FR: Inflammable. IT: Infiammabile. NL: Ontvlambaar. PT: Inflamável. SV: Brandfarligt.






									
	<p>Xi EN: Irritant DA: Lokalirriterende DE: Reizend EL: Ερεθιστικό ES: Irritante FR: Irritant IT: Irritante NL: Irriterend PT: Irritante SV: Irriterande</p> <p>R22 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>For full text of R- & S- phrases: see Section 15.</p>								
NFPA Scale: 0-4									
HMIS (U.S.A.) Scale: 0-4	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #d9e1f2;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #f4cccc;">FLAMMABILITY</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: #fff2cc;">PHYSICAL HAZARD</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">H</td> </tr> </table>	HEALTH	1	FLAMMABILITY	3	PHYSICAL HAZARD	0	PERSONAL PROTECTION	H
HEALTH	1								
FLAMMABILITY	3								
PHYSICAL HAZARD	0								
PERSONAL PROTECTION	H								
Other Hazards	<p>PBT: This mixture does not contain any substances that are assessed to be a PBT. vPvB: This mixture does not contain any substances that are assessed to be a vPvB.</p>								

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	 Danger. 2 H225 Highly flammable liquid and vapour.	≤ 95
Isopropyl Alcohol	67-63-0	200-661-7	 Warning. 2. H319 Causes serious eye irritation. 3. H336 May cause drowsiness or dizziness.  Danger. 3 H225 Highly flammable liquid and vapour.	≤ 3.8
Acetic Acid	64-19-7	200-580-7	 Warning. 3, H226 Flammable liquid and vapour.  Danger. 1A H314 Causes severe skin burns and eye damage.	≤ 2

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

Extinguishing Media	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
Unusual Fire and Explosion Hazards	No unusual fire or explosion hazards expected.
General Information	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

Exposure Limits	Acetic Acid, CAS# 64-19-7 ACGIH TLV: 15ppm (37 mg/m ³) STEL 10 ppm (25 mg/m ³) TWA NIOSH REL: 15 ppm (37 mg/m ³) STEL 10 ppm (25 mg/m ³) TWA OSHA PEL: 10 ppm (25 mg/m ³) TWA Ethanol CAS# 64-17-5 NIOSH REL: 1000 ppm (1900 mg/m ³) TWA OSHA PEL: 1000 ppm (1900 mg/m ³) TWA ACGIH TLV: 1000ppm (1900mg/m ³) TWA Isopropyl alcohol, CAS# 67-63-0 NIOSH REL: TWA 400 ppm (980 mg/m ³) ST 500 ppm (1225 mg/m ³) OSHA PEL: TWA 400 ppm (980 mg/m ³) ACGIH TLV: TWA 200 ppm STEL 400 ppm
Personal Protection	Eye/Face protection. Safety glasses or goggles are required. Skin protection. Protective clothing is required. Hand protection. 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. Respiratory protection. Avoid breathing vapor. Environmental exposure controls. Avoid releasing large quantities into the environment. No additional information.
Engineering Controls	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

Physical State	Liquid
Color	Colorless
Odor	Slight alcohol odor.
Odor Threshold	Unknown
pH	Unknown
Melting Point/ Freezing Point	Unknown

Initial Boiling Point	Unknown
Flash Point	Ethanol: Closed Cup: 13.333° C or 56° F
Evaporation Rate	Unknown
Flammability (solid, gas)	Unknown
Upper/Lower Flammability Limits	Unknown
Vapor Pressure	Unknown
Vapor Density	Unknown
Relative Density	Unknown
Solubility(ies)	Water
Partition Coefficient: n-octanol/water	Unknown
Auto-Ignition Temperature	Unknown
Decomposition Temperature	Unknown
Viscosity	Unknown
Explosive Properties	Not explosive.
Oxidizing Properties	Unknown

Section 10. Stability and Reactivity

Reactivity	No relevant data available.
Chemical Stability	Stable under normal temperatures and pressures.
Possibility of Hazardous Reactions	No hazardous reactions known.
Conditions to Avoid	Fire, static electricity, direct sunlight.
Incompatible Materials	Oxidizing agents. Metal hydrides.
Hazardous Decomposition Materials	Carbon Dioxide. Carbon Monoxide.

Section 11. Toxicological Information

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


Section 12. Ecological Information


Toxicity	Fish: No relevant studies identified. Crustacea: No relevant studies identified. Algae/Aquatic Plants: No relevant studies identified. Other Organisms: No relevant studies identified.
Persistence and Degradability.	No relevant studies identified.
Bioaccumulative Potential.	No relevant studies identified.
Mobility in Soil.	No relevant studies identified.
Additional Remarks	None.
Results of PBT and vPvB Assessment.	PBT: This mixture does not contain any substances that are assessed to be a PBT. vPvB: This mixture does not contain any substances that are assessed to be a vPvB.

Section 13. Disposal Considerations

Waste Disposal Methods.	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.
Product/Packaging Disposal.	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
Other Disposal Recommendations.	No relevant data available.

Section 14. Transport Information

UN Number DOT, IATA,IMDG, ADR	UN1170
UN Proper Shipping Name DOT, IATA,IMDG, ADR	Ethanol Solutions
Transport Hazard Class(es)	DOT <div style="text-align: center;">  </div> <p>Class 3 Flammable Label 3</p>

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

Section 15. Regulatory Information

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

Specific Toxic Chemical Listings; Section 313	<p>Listed on Right to Know: Ethanol. California Massachusetts Minnesota New Jersey Pennsylvania</p> <p>Listed on Right to Know: Isopropyl Alcohol. California Massachusetts Minnesota New Jersey Pennsylvania</p>
Extremely Hazardous Substances; Section 355	None of the components in this mixture are listed.
Toxic Substances Control Act; TSCA	All of the components in this mixture are listed.
California Proposition 65	None of the components in this mixture are listed.
Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance/mixture by ScyTek Laboratories, Inc.

R phrases	<p>R10 EN: Flammable. DA: Brandfarlig. DE: Entzündlich. EL: Εύφλεκτο. ES: Inflamable. FR: Inflammable. IT: Infiammabile. NL: Ontvlambaar. PT: Inflamável. SV: Brandfarligt.</p> <p>R22 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>R36/38 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>
S phrases	<p>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'étincelles - 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.</p> <p>S24/25 EN: Avoid contact with skin and eyes. DA: Undgå kontakt med huden og øjnene. DE: Berührung mit den Augen und der Haut vermeiden. EL: Αποφεύγετε επαφή με το δέρμα και με τα μάτια. ES: Evítase el contacto con los ojos y la piel. FR: Éviter le contact avec la peau et les yeux. IT: Evitare il contatto con gli occhi e con la pelle. NL: Aanraking met de ogen en de huid vermijden. PT: Evitar o contacto com a pele e os olhos. SV: Undvik kontakt med huden och ögonen.</p> <p>S37/39 EN: Wear suitable gloves and eye/face protection. DA: Brug egnede beskyttelsehandsker og -briller/ansigtsskærm under arbejdet.</p>

	<p>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.</p> <p>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 ετικέτα. 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'ingertione 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 imediatamente o médico e mostrar-lhe a embalagem ou o rótulo. SV: Vid förtäring kontakta genast läkare och visa denna förpackning eller 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.