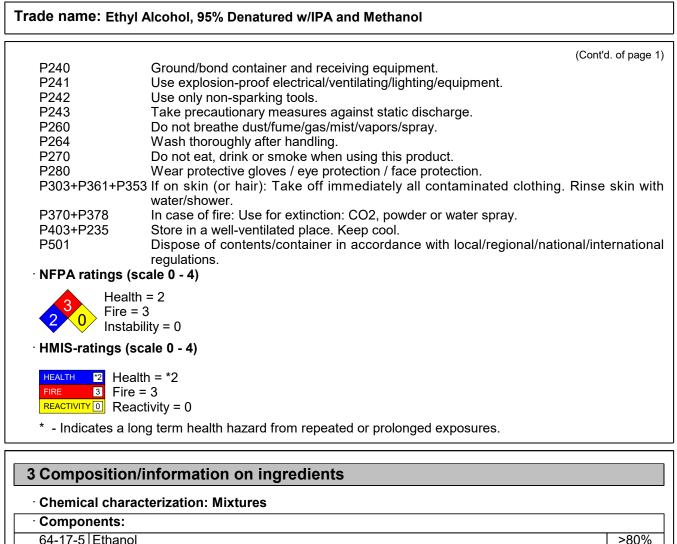
Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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1 Identification
· Product identifier
 Trade name: <u>Ethyl Alcohol, 95% Denatured w/IPA and Methanol</u> Product code: S25309A
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177 Emergency telephone number:
ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
2 Hazard(s) identification Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Eye Irrit. 2A H319 Causes serious eye irritation.
 2 Hazard(s) identification Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 2 H371 May cause damage to the central nervous system and the eyes. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

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components.	
64-17-5 Ethanol	>80%
 Flam. Liq. 2, H225 Eye Irrit. 2A, H319 	
67-56-1 Methanol	≥3-<5%
 Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370 	
67-63-0 Propan-2-ol	2.5-5%
 Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336 	
Additional information: For the wording of the listed Hazard Statements, refer to section 16.	

4 First-aid measures

[•] Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48

⁽Cont'd. on page 3)

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hours after the accident.	(contrat of pe
Take affected persons out into the fresh air.	
After inhalation:	
Supply fresh air; consult doctor in case of complaints.	
Provide oxygen treatment if affected person has difficulty breathing.	
In case of irregular breathing or respiratory arrest provide artificial respiration.	
After skin contact:	
Immediately remove any clothing soiled by the product.	
Immediately rinse with water.	
If skin irritation continues, consult a doctor.	
After eye contact:	
Remove contact lenses if worn.	
Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing:	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed:	
Headache	
Coughing	
Breathing difficulty	
Dizziness	
Gastric or intestinal disorders when ingested.	
Nausea in case of ingestion.	
Slight irritant effect on skin and mucous membranes.	
Causes eye irritation.	
Blindness	
Acidosis	
Disorientation	
Unconsciousness	
Danger:	
Danger of impaired breathing.	
May be harmful if inhaled.	
Repeated exposure may cause skin dryness or cracking.	
May cause respiratory irritation. Vapors may cause drowsiness and dizziness.	
Causes damage to organs through prolonged or repeated exposure.	
Danger of disturbed cardiac rhythm.	
Danger of convulsion.	
Indication of any immediate medical attention and special treatment needed:	
Contains ethanediol. Consult literature for specific antidotes.	
Medical supervision for at least 48 hours.	
Monitor circulation, possible shock treatment.	
If necessary oxygen respiration treatment.	

5 Fire-fighting measures

[•] Extinguishing media

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray.

• For safety reasons unsuitable extinguishing agents: None.

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ade name: Et	yl Alcohol, 95% Denatured w/IPA and Methanol
	(Cont'd. of page
	Is arising from the substance or mixture
Formation of	xic gases is possible during heating or in case of fire.
[·] Advice for f	efighters
· Protective ed	
	ained respiratory protective device.
Wear fully pro	
Additional i	
	nition sources if safe to do so.
Use large qua	tities of foam as it is partially destroyed by the product.
6 Accidental	elease measures
· Personal pr	cautions, protective equipment and emergency procedures
	protective device against the effects of fumes/dust/aerosol.
	e equipment. Keep unprotected persons away.
Ensure adequ	
	n ignition sources.
Protect from h	at.
[·] Environmer	al precautions
Do not allow t	enter sewers/ surface or ground water.
Inform respec	ve authorities in case of seepage into water course or sewage system.
· Methods an	material for containment and cleaning up
Absorb with n	n-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
Pick up mech	
	ninated material as waste according to item 13.
	ther cleaning materials should be soaked with water and placed in a sealed container.
	other sections
	or information on safe handling. or information on personal protection equipment.
	for disposal information.
7 Handling a	d storage
[.] Handling	
· Precautions	or safe handling:
	on of aerosols.
	or spray in enclosed areas.
	l ventilated areas.
	pols / cuttings / shavings and waste papers soaked with product must be placed in a seale
	rated for flammable waste.
	bout protection against explosions and fires:
	purces away - Do not smoke.
E LA DIDIA DIA 02	a-air mixtures may be formed in empty containers/receptacles.
	nbine with air to form an explosive mixture.
Protect again	
Protect agains Fumes can co	or safe storage, including any incompatibilities
Protect agains Fumes can co • Conditions	or safe storage, including any incompatibilities to be met by storerooms and receptacles:
Protect agains Fumes can co • Conditions	to be met by storerooms and receptacles:

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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(Cont'd. of page 4)

Trade name: Ethyl Alcohol, 95% Denatured w/IPA and Methanol Provide ventilation for receptacles. Avoid storage near extreme heat, ignition sources or open flame. • Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents. Do not store together with acids. • Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

8 Exposure co	ontrols/personal protection
[·] Control paran	neters
· Components w	rith limit values that require monitoring at the workplace:
64-17-5 Ethano	l
PEL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
REL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m³, 1000 ppm
EL (Canada)	Short-term value: 1000 ppm
EV (Canada)	Long-term value: 1,900 mg/m³, 1,000 ppm
LMPE (Mexico)	Long-term value: 1000 ppm A3
67-56-1 Methan	nol
PEL (USA)	Long-term value: 260 mg/m³, 200 ppm
REL (USA)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
TLV (USA)	Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI
EL (Canada)	Short-term value: 250 ppm Long-term value: 200 ppm Skin
EV (Canada)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
LMPE (Mexico)	Short-term value: 250 ppm Long-term value: 200 ppm PIEL, IBE
67-63-0 Propan	i-2-ol
PEL (USA)	Long-term value: 980 mg/m³, 400 ppm
REL (USA)	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV (USA)	Short-term value: 984 mg/m³, 400 ppm
	(Cont'd. on page 6)

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	(Cont'd. of page (
	BEI
EL (Canada)	Short-term value: 400 ppm
	Long-term value: 200 ppm
EV (Canada)	
	Long-term value: 200 ppm
LMPE (Mexic	
	Long-term value: 200 ppm A4, IBE
Ingredients	with biological limit values:
67-56-1 Met	ianol
BEI (USA) 1	5 mg/L
I N	ledium: urine
	ime: end of shift arameter: Methanol (background, nonspecific)
۲ 67-63-0 Pro	
BEI (USA) 4	
Ì Í N	ledium: urine
	ime: end of shift at end of workweek
F	arameter: Acetone (background, nonspecific)
Keep away fi Immediately Do not inhale Wash hands Avoid contact Engineering Breathing e Not required Use suitable	under normal conditions of use. respiratory protective device when aerosol or mist is formed. respiratory protective device when high concentrations are present.
	piratory protection may be advisable. f hands:
For spills, res Protection of	

· Penetration time of glove material

(Cont'd. on page 7)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Trade name: Ethyl Alcohol, 95% Denatured w/IPA and Methanol (Cont'd. of page 6) The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection: Safety glasses · Body protection: Protective work clothing · Limitation and supervision of exposure into the environment No relevant information available. **Risk management measures** See Section 7 for additional information. No relevant information available. 9 Physical and chemical properties Information on basic physical and chemical properties · Appearance: Form: Liquid Color: Colorless · Odor: Alcohol-like · Odor threshold: Not determined. · pH-value: Not determined. · Melting point/Melting range: Not determined. · Boiling point/Boiling range: 171 °F/ 77 °C (339.8 °F/ 170.6 °F) 59.9 °F / 15.5 °C (139.8 °F / 59.9 °F) · Flash point: · Flammability (solid, gaseous): Not applicable. • Auto-ignition temperature: Not determined. • Decomposition temperature: Not determined. Product is not explosive. However, formation of explosive air/ • Danger of explosion: vapor mixtures are possible. · Explosion limits 1.0 Vol % Lower: Upper: 15.0 Vol % · Oxidizing properties: Not determined. · Vapor pressure at 20 °C (68 °F): 64 hPa (48 mm Hg) · Density at 20 °C (68 °F): $0.8 \pm 0.05 \text{ g/cm}^3$ (6.68 ± 0.42 lbs/gal) · Relative density: Not determined. · Vapor density: Not determined. Not determined. · Evaporation rate: · Solubility in / Miscibility with Water: Fully miscible. · Partition coefficient (n-octanol/water): Not determined. (Cont'd. on page 8)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Trade name: Ethyl Alcohol, 95% Denatured w/IPA and Methanol

(Cont'd. of page 7)

		`	1 0
· Viscosity			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
[•] Other information	No relevant information available.		

10 Stability and reactivity

· Reactivity: No relevant information available.

· Chemical stability:

• Thermal decomposition / conditions to be avoided: Keep away from heat and direct sunlight.

[•] Possibility of hazardous reactions

Flammable.

Reacts violently with oxidizing agents.

Used empty containers may contain product gases which form explosive mixtures with air. Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized. Toxic fumes may be released if heated above the decomposition point.

Conditions to avoid

Keep ignition sources away - Do not smoke.

Keep away from heat and direct sunlight.

Store away from oxidizing agents.

Incompatible materials No relevant information available.

· Hazardous decomposition products Carbon monoxide and carbon dioxide

11 Toxicological information

[·] Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

67-56-1 M	ethanol		
Oral	LD50	5628 mg/kg (rat)	
Dermal	LD50	15800 mg/kg (rabbit)	
Inhalative	LC50/4h	130.7 mg/l (rat)	
[.] On the ey	in: Slight e: Irritatin	irritant effect on skin and mucous membranes.	
· IARC (Inte	ernationa	I Agency for Research on Cancer):	
64-17-5 E	thanol		1
67-63-0 F	ropan-2-c	bl	3
· NTP (Nati	onal Toxi	icology Program):	
None of th	e ingredie	ents are listed.	
· OSHA-Ca	(Occupa	tional Safety & Health Administration):	
None of th	e ingredie	ents are listed.	
			(Cont'd. on page 9)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Trade name: Ethyl Alcohol, 95% Denatured w/IPA and Methanol

(Cont'd. of page 8)

 Acute effects (acute toxicity, irritation and corrosivity): Vapors have narcotic effect. May be harmful if inhaled.
 Repeated dose toxicity: May cause damage to organs through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking.

12 Ecological information

· Toxicity

· Aquatic toxicity No relevant information available.

- Persistence and degradability Biodegradable.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.

[•] Additional ecological information

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential, a prolonged damage of the environment is unlikely.

• Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN1987
 ¹ UN proper shipping name ¹ DOT ² ADR/RID/ADN 	Alcohols, n.o.s. (Ethanol, Methanol) 1987 ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), METHANOL)
	(Cont'd. on page 10)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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	(Cont'd. of pag
IMDG	ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHO METHANOL)
ΙΑΤΑ	ALCOHOLS, N.O.S. (ETHANOL, METHANOL)
Transport hazard class(es)	
DOT	
Class	3
Label	3
ADR/RID/ADN	
Class	3 (F1)
Label	3
Class	3
Label	3
Packing group DOT, ADR/RID/ADN, IMDG, IATA	II
Environmental hazards Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code): EMS Number:	33 F-E,S-D
Transport in bulk according to Annex II	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
 United States (USA)
 SARA
 Section 302 (extremely hazardous substances):

None of the ingredients are listed.

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	(Cont'd. of page
· Section 313 (Specific toxic chemical listings):	
67-56-1 Methanol	
67-63-0 Propan-2-ol	
· TSCA (Toxic Substances Control Act)	
64-17-5 Ethanol	
67-56-1 Methanol	
67-63-0 Propan-2-ol	
7732-18-5 Water	
· Proposition 65 (California)	
· Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity for females:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity for males:	
None of the ingredients are listed.	
· Chemicals known to cause developmental toxicity:	
64-17-5 Ethanol	
67-56-1 Methanol	
EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
· IARC (International Agency for Research on Cancer):	
64-17-5 Ethanol	
67-63-0 Propan-2-ol	
Canadian Domestic Substances List (DSL):	
64-17-5 Ethanol	
67-56-1 Methanol	
67-63-0 Propan-2-ol	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration

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Trade name: Ethyl Alcohol, 95% Denatured w/IPA and Methanol

(Cont'd. of page 11)

Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 3: Acute toxicity – Category 3 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 1: Specific target organ toxicity (single exposure) – Category 1 STOT SE 2: Specific target organ toxicity (single exposure) – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3