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1 Identification	
· Product identifier	
 Trade name: <u>Ethyl Acetate</u> Product code: S25305 CAS Number: 141-78-6 	
 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 Phone: (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	
 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 3 H336 May cause drowsiness or dizziness. Additional information: Repeated exposure may cause skin dryness or crutical series. 	acking
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized Hazard pictograms: 	System (GHS).
· GHS label elements The product is classified and labeled according to the Globally Harmonized	System (GHS).

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	(Cont'd. of page 1)
 Precautionary sta 	atements:
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
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.
P261	Avoid breathing mist, vapors, or spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P312	Call a poison center/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: Alcohol resistant foam or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· Additional inform	ation: Repeated exposure may cause skin dryness or cracking.
• Other hazards 1	There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

[•] Chemical characterization: Substances

- · CAS No. Description
- 141-78-6 Ethyl acetate

4 First-aid measures

Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation continues, consult a doctor.

- · After eye contact:
- Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, 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:

Dizziness

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Coughing Causes eye irritation. Gastric or intestinal disorders when ingested. Nausea in case of ingestion. Disorientation • Danger: May cause drowsiness or dizziness. Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking. • Indication of any immediate medical attention and special treatment needed: If necessary oxygen respiration treatment. Medical supervision for at least 48 hours. If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Alcohol resistant foam Carbon dioxide Gaseous extinguishing agents Fire-extinguishing powder Water fog / haze
- For safety reasons unsuitable extinguishing agents: Water stream.

• Special hazards arising from the substance or mixture Highly flammable liquid and vapor. Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit. • Additional information:

Eliminate all ignition sources if safe to do so.

Use large quantities of foam as it is partially destroyed by the product. Cool endangered receptacles with water in flooding quantities.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Remove ignition sources. Wear protective equipment. Keep unprotected persons away. For large spills, use respiratory protective device against the s

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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· Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Handling

- · Precautions for safe handling:
- Prevent formation of aerosols.
- Avoid splashes or spray in enclosed areas.
- Use only in well ventilated areas.
- Information about protection against explosions and fires:

Highly flammable liquid and vapor.

- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

[•] Conditions for safe storage, including any incompatibilities

· Requirements to be met by storerooms and receptacles: Store in a cool location.

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.
- Further information about storage conditions: Keep containers tightly sealed.
- · Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

141-78-6 Ethyl acetate

•	
PEL (USA)	Long-term value: 1400 mg/m ³ , 400 ppm
REL (USA)	Long-term value: 1400 mg/m ³ , 400 ppm Long-term value: 1400 mg/m ³ , 400 ppm
TLV (USA)	Long-term value: 1440 mg/m ³ , 400 ppm
EL (Canada)	Long-term value: 150 ppm
EV (Canada)	Long-term value: 1,440 mg/m ³ , 400 ppm
LMPE (Mexico)	Long-term value: 400 ppm

• Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.

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(Cont'd. of page 4) Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. · Engineering controls: Provide adequate ventilation. · Breathing equipment: Suitable respiratory protective device recommended. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves Butyl rubber, BR Fluorocarbon rubber (Viton) Natural rubber, NR Nitrile rubber, NBR Sensibilization by the components in the glove materials is possible. · Not suitable are gloves made of the following materials: PVC gloves **PVA** gloves · Eye protection: Safety glasses Follow relevant national guidelines concerning the use of protective eyewear. · Body protection: Protective work clothing · Limitation and supervision of exposure into the environment No relevant information available.

Information on basis physical a	and chamical properties	
Information on basic physical a	and chemical properties	
Appearance:	l invital	
Form:	Liquid	
Color:	Colorless	
Odor:	Fruit-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	-83.57 ℃ (-118.4 ℉)	
Boiling point/Boiling range:	77-78 ℃ (170.6-172.4 °F)	
Flash point:	-1 °C (30.2 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	460 ℃ (860 °F)	
Decomposition temperature:	Not determined.	
		(Cont'd. on pag

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· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.	
· Explosion limits		
Lower:	2.1 Vol %	
Upper:	11.5 Vol %	
 Oxidizing properties: 	Not determined.	
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)	
· Density at 20 ℃ (68 ℉):	0.9 g/cm ³ (7.51 lbs/gal)	
· Relative density:	Not determined.	
· Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water at 20 °C (68 °F):	79 g/l	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity		
Dynamic at 20 °C (68 °F):	0.44 mPas	
Kinematic:	Not determined.	
Other information	No relevant information available.	

10 Stability and reactivity

- · Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- [•] Possibility of hazardous reactions

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.

Highly flammable liquid and vapor.

Reacts with strong acids.

Toxic fumes may be released if heated above the decomposition point.

Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- · Incompatible materials No relevant information available.
- Hazardous decomposition products
- Under fire conditions only:

Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

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	ity: Based on available data, the classification criteria are not met.
	nyl acetate
	D50 5620 mg/kg (rabbit)
	C50/4h 1600 mg/l (rat)
· Primary in	ant effect: : Based on available data, the classification criteria are not met.
	Causes serious eye irritation.
	n: Based on available data, the classification criteria are not met.
	national Agency for Research on Cancer):
Substance	
· NTP (Natio	nal Toxicology Program):
Substance	
	Occupational Safety & Health Administration):
Substance	• •
Ingestion.	ute(s) of exposure:
Inhalation.	
Eye contac	
Skin contac	
	ts (acute toxicity, irritation and corrosivity):
	bus eye irritation.
	skin irritation.
	e narcotic effect.
	ose toxicity: Repeated exposure may cause skin dryness or cracking.
	nutagenicity: Based on available data, the classification criteria are not met.
	icity: Based on available data, the classification criteria are not met.
	ve toxicity: Based on available data, the classification criteria are not met.
	e exposure: May cause drowsiness or dizziness.
	Ited exposure: Based on available data, the classification criteria are not met.
	nazard: Based on available data, the classification criteria are not met.
2 Ecologic	I information
[.] Toxicity	
	icity No relevant information available.
	e and degradability No relevant information available.
	lative potential: No relevant information available.
	soil: No relevant information available.
	ecological information
· General no	
	v undiluted product or large quantities of it to reach ground water, water course or sewag
system.	
	PBT and vPvB assessment
 Results o 	
 Results o PBT: Not a vPvB: Not 	plicable.

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• 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. 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.

Transport information		
[·] UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN1173	
 UN proper shipping name DOT, IMDG, IATA ADR/RID/ADN 	ETHYL ACETATE 1173 ETHYLACETAT	
[·] Transport hazard class(es)		
·DOT		
· Class	3	
·Label	3	
· ADR/RID/ADN		
· Class	3 (F1)	
· Label	3	
· IMDG, IATA		
· Class	3	
·Label	3	
[·] Packing group		
	(Cont'd. on	pag

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		(Cont'd. of page 8)
· DOT, ADR/RID/ADN, IMDG, IATA	II	
· Environmental hazards	Not applicable.	
[·] Special precautions for user	Warning: Flammable liquids	
· Danger code (Kemler):	33	
· EMS Number:	3-07	
· Transport in bulk according to Annex	x II of	
MARPOL73/78 and the IBC Code	Not applicable.	
[·] Transport/Additional information:		
·DOT		
· Hazardous substance:	5000 lbs, 2270 kg	

15 Regulatory information

 Safety, health and environmental regulations/legislation specific mixture United States (USA) SARA 	for the substance or
· Section 302 (extremely hazardous substances):	
Substance is not listed.	
 Section 355 (extremely hazardous substances): 	
Substance is not listed.	
· Section 313 (Specific toxic chemical listings):	
Substance is not listed.	
· TSCA (Toxic Substances Control Act)	
Substance is listed.	
· Proposition 65 (California)	
· Chemicals known to cause cancer:	
Substance is not listed.	
· Chemicals known to cause developmental toxicity for females:	
Substance is not listed.	
· Chemicals known to cause developmental toxicity for males:	
Substance is not listed.	
· Chemicals known to cause developmental toxicity:	
Substance is not listed.	
· EPA (Environmental Protection Agency):	
Substance is not listed.	
· IARC (International Agency for Research on Cancer):	
Substance is not listed.	
· Canadian Domestic Substances List (DSL) (Substances not listed.):	
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Substance is listed.

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.

speeme product reactions and shall not establish a regary valid contraction 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 Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent DBS: Very Bersistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2A: Seroid organ toxicity (single exposure) – Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers
SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com