

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 02.23.2018

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## Test Solution #125

### SECTION 1: Identification

#### Product identifier

**Product name:** Test Solution #125

**Product code:** TL6100SS

#### Recommended use of the product and restriction on use

**Relevant identified uses:** Laboratory chemicals

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

#### Manufacturer or supplier details

##### Manufacturer:

##### United States

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331

1-717-632-1291

#### Emergency telephone number:

##### United States

##### ChemTel Inc

+1(800)255-3924

+1(813)248-0585

### SECTION 2: Hazard(s) identification

#### GHS classification:

Flammable liquids, category 2

Skin corrosion, category 1A

Aspiration hazard, category 1

Specific target organ toxicity - single exposure, category 3, central nervous system

Specific target organ toxicity - repeated exposure, category 2

Reproductive toxicity, category 2

Serious eye damage, category 1

#### Label elements

##### Hazard pictograms:



**Signal word:** Danger

#### Hazard statements:

H225 Highly flammable liquid and vapor

H314 Causes severe skin burns and eye damage

H304 May be fatal if swallowed and enters airways

H336 May cause drowsiness or dizziness

H373 May cause damage to organs through prolonged or repeated exposure

H361 Suspected of damaging fertility or the unborn child

H318 Causes serious eye damage.

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#### Precautionary statements:

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/light/equipment  
P242 Use only non-sparking tools  
P243 Take precautionary measures against static discharge  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P260 Do not breathe dust/fume/gas/mist/vapors/spray  
P264 Wash skin thoroughly after handling  
P271 Use only outdoors or in a well-ventilated area  
P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P235 Keep cool.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P281 Use personal protective equipment as required.  
P370+P378 In case of fire: Use agents recommended in section 5 for extinction  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P363 Wash contaminated clothing before reuse  
P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician  
P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.  
P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.  
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
P331 Do not induce vomiting  
P308+P313 If exposed or concerned: Get medical advice/attention  
P303 IF ON SKIN (or hair):  
P353 Rinse skin with water/shower  
P361 Remove/Take off immediately all contaminated clothing.  
P370 In case of fire:  
P378 Use ... for extinction  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P301 IF SWALLOWED:  
P304 IF INHALED:  
P305 IF IN EYES:  
P310 Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth  
P338 Remove contact lenses if present and easy to do. Continue rinsing  
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P351 Rinse cautiously with water for several minutes  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P314 Get medical advice/attention if you feel unwell  
P308 If exposed or concerned:

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P313 Get medical advice/attention

P405 Store locked up

P403+P233 Store in a well ventilated place. Keep container tightly closed

P403 Store in a well ventilated place.

P403+P235 Store in a well ventilated place. Keep cool.

P501 Dispose of contents and container as instructed in Section 13

**Hazards not otherwise classified:** None

### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 64-19-7	Acetic Acid	5
CAS number: 108-88-3	Toluene	95

**Additional Information:** None

### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

Not determined or not applicable.

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Move exposed individual to fresh air

Immediately call a POISON CONTROL CENTER or seek medical attention

##### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Immediately remove all contaminated clothing

Wash affected area with soap and water

Immediately call a POISON CONTROL CENTER or seek medical attention

##### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Remove contact lens(es) if able to do so during rinsing

Immediately call a POISON CONTROL CENTER or seek medical attention

##### After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Immediately call a POISON CONTROL CENTER or seek medical attention

Do not induce vomiting

Rinse mouth and then drink plenty of water

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

##### Acute symptoms and effects:

Not determined or not applicable.

##### Delayed symptoms and effects:

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Not determined or not applicable.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not applicable.

##### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Use dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

##### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

#### Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing

Refer to Section 8

#### Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols

Avoid contact with skin, eyes and clothing

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Ensure air handling systems are operational

Beware of vapors accumulating to form explosive concentrations

Vapors can accumulate in low areas

#### Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Use spark-proof tools and explosion-proof equipment

#### Reference to other sections:

Not determined or not applicable.

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only non-sparking tools.

Take precautionary measures against electrostatic discharges.

#### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

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Keep container tightly sealed.

Keep away from all ignition sources: open flames, hot surfaces, direct sunlight, spark sources.

Store locked up.

Use appropriate containment to avoid environmental contamination.

Protect from freezing and physical damage.

### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Acetic Acid	64-19-7	ACGIH TLV TWA 10 ppm
	Toluene	108-88-3	ACGIH TWA 20ppm
	Acetic Acid	64-19-7	ACGIH TLV STEL 15 ppm
NIOSH	Toluene	108-88-3	NIOSH TWA 375.0 mg/m <sup>3</sup> ; 100 ppm
	Toluene	108-88-3	NIOSH STEL 560 mg/m <sup>3</sup> ; 150 ppm
	Acetic Acid	64-19-7	NIOSH REL TWA 10 ppm
	Acetic Acid	64-19-7	NIOSH REL TWA 25 mg/m <sup>3</sup>
	Acetic Acid	64-19-7	NIOSH REL ST 15 ppm
	Acetic Acid	64-19-7	NIOSH REL ST 37 mg/m <sup>3</sup>
United States (OSHA)	Acetic Acid	64-19-7	OSHA PEL TWA 10 ppm
	Toluene	108-88-3	OSHA PEL 300 ppm Ceiling
	Acetic Acid	64-19-7	OSHA PEL TWA 25 mg/m <sup>3</sup>
	Toluene	108-88-3	OSHA PEL TWA 200 ppm
	Toluene	108-88-3	OSHA PEL 500 ppm Peak (10 mins)

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Not determined or not applicable.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Use explosion-proof ventilation equipment.

#### Personal protection equipment

##### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

##### Skin and body protection:

Select glove material impermeable and resistant to the substance.

##### Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

#### General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

### SECTION 9: Physical and chemical properties

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#### Information on basic physical and chemical properties

Appearance	Clear, colorless liquid
Odor	Sweet, pungent, benzenelike odor
Odor threshold	1.03 to 140 ug/cu m
pH	Not determined
Melting point/freezing point	95°C (-139°F)
Initial boiling point/range	110 - 111 °C (230 - 232 °F)
Flash point (closed cup)	4.0 °C (39.2 °F)
Evaporation rate	2.4
Flammability (solid, gas)	Highly flammable
Upper flammability/explosive limit	7 %(V)
Lower flammability/explosive limit	1.2 %(V)
Vapor pressure	28.4 mm Hg at 25 deg °C
Vapor density	3.1
Density	Not determined
Relative density	0.865 g/mL at 25 °C (77 °F)
Solubilities	Insoluble in water
Partition coefficient (n-octanol/water)	log Kow 2.73
Auto/Self-ignition temperature	535.0 °C (995.0 °F)
Decomposition temperature	Not determined
Dynamic viscosity	Not determined
Kinematic viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

#### Other information

### SECTION 10: Stability and reactivity

#### Reactivity:

Does not react under normal conditions of use and storage.

#### Chemical stability:

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

#### Conditions to avoid:

Excess heat, ignition source or flames.

#### Incompatible materials:

None known.

#### Hazardous decomposition products:

None known.

### SECTION 11: Toxicological information

#### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

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**Product data:** No data available.

**Substance data:** No data available.

#### Skin corrosion/irritation

**Assessment:** Causes severe skin burns and eye damage

**Product data:** No data available.

**Substance data:**

Name	Result
Toluene	Irritating to the skin.
Acetic Acid	Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

**Assessment:** Causes serious eye damage

**Product data:** No data available.

**Substance data:** No data available.

#### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### International Agency for Research on Cancer (IARC):

Name	Classification
Toluene	Group 3 - Not classifiable as to its carcinogenicity to humans

**National Toxicology Program (NTP):** None of the ingredients are listed.

#### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Reproductive toxicity

**Assessment:** Suspected of damaging fertility or the unborn child

**Product data:** No data available.

**Substance data:**

Name	Result
Toluene	Suspected of damaging fertility or the unborn child.

#### Specific target organ toxicity (single exposure)

**Assessment:** May cause drowsiness or dizziness

**Product data:** No data available.

**Substance data:**

Name	Result
Toluene	Component affects the central nervous system.

#### Specific target organ toxicity (repeated exposure)

**Assessment:** May cause damage to organs through prolonged or repeated exposure

**Product data:** No data available.

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**Substance data:** No data available.

#### Aspiration toxicity

**Assessment:** May be fatal if swallowed and enters airways

**Product data:** No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available.

**Other information:** No data available.

### SECTION 12: Ecological information

#### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

#### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

#### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

#### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

### SECTION 13: Disposal considerations

#### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

### SECTION 14: Transport information

#### United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN 1294
UN proper shipping name	Toluene
UN transport hazard class(es)	3
Packing group	II
Environmental hazards	None
Special precautions for user	None



#### International Maritime Dangerous Goods (IMDG)

UN number	UN 1294
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UN proper shipping name	Toluene
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None

## International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 1294
UN proper shipping name	Toluene
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None

## SECTION 15: Regulatory information

### United States regulations

#### Inventory listing (TSCA):

108-88-3	Toluene	Listed
64-19-7	Acetic Acid	Listed

**Significant New Use Rule (TSCA Section 5):** Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
Yes	Yes	Yes	No	No

**SARA Section 302 extremely hazardous substances:** Not determined.

#### SARA Section 313 toxic chemicals:

108-88-3	Toluene	Listed
64-19-7	Acetic Acid	Not Listed

#### CERCLA:

108-88-3	Toluene	Listed	1000
64-19-7	Acetic Acid	Listed	5000

#### RCRA:

108-88-3	Toluene	Listed	U220
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**Section 112(r) of the Clean Air Act (CAA):** Not determined.

#### Massachusetts Right to Know:

108-88-3	Toluene	Listed
64-19-7	Acetic Acid	Listed

#### New Jersey Right to Know:

108-88-3	Toluene	Listed
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64-19-7	Acetic Acid	Listed
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#### New York Right to Know:

108-88-3	Toluene	Listed
64-19-7	Acetic Acid	Listed

#### Pennsylvania Right to Know:

108-88-3	Toluene	Listed
64-19-7	Acetic Acid	Listed

#### California Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

108-88-3	Toluene
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### SECTION 16: Other information

**Abbreviations and Acronyms:** None

#### Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA:** 3-3-0

**HMIS:** 3-3-0

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**End of Safety Data Sheet**