according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 02.11.2015

## Trichloroacetic Acid, 10%

## SECTION 1: Identification of the substance/mixture and of the supplier

Product name:

Trichloroacetic Acid, 10%

Manufacturer/Supplier Article number: TC8010SS

Recommended uses of the product and restrictions on use: Laboratory

# Manufacturer Details:

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

**Emergency telephone number:** 

## ChemTel: (24-hour)

+1(800)255-3924 +1(813)248-0585 (International)

## **SECTION 2: Hazards identification**

## Classification of the substance or mixture:



**Corrosive** Skin corrosion, category 1B Serious eye damage, category 1

## **Environmentally Damaging**

Acute hazards to the aquatic environment, category 1 Chronic hazards to the aquatic environment, category 1

Skin. Corr. 1A. Eye. Damage 1. Aq. ChrTox. 1. Aq. AcTox. 1.

Signal word: Danger

## Hazard statements:

Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.

### **Precautionary statements:**

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash skin thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

Specific treatment (see supplemental first aid instructions on this label).

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Wash contaminated clothing before reuse. Collect spillage. Store locked up. Dispose of contents and container as instructed in Section 13.

# Other Non-GHS Classification: None

## **SECTION 3: Composition/information on ingredients**

### Ingredients:

Ingredients:				
CAS 76-03-9	Trichloroacetic acid	10 %		
CAS 7732-18-5	Deionized Water	90 %		
		Percentages are by weight		

## **SECTION 4: First aid measures**

### **Description of first aid measures**

### After inhalation:

Seek medical assistance. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position.

### After skin contact:

Continue rinsing while removing contaminated clothing and shoes. Wash hands and exposed skin with soap and plenty of water. Immediately seek medical attention.

### After eye contact:

Continue rinsing eyes during transport to hospital. Take victim immediately to hospital. Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses, if present and easy to do, and continue rinsing.

### After swallowing:

Seek medical assistance. Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

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

Irritation. Shortness of breath. Headache. Nausea. Dizziness. Eye & Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans. Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Stomach - Irregularities - Based on Human Evidence.

### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

## **SECTION 5: Firefighting measures**

## **Extinguishing media**

### Suitable extinguishing agents:

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

## Unsuitable extinguishing agents: None

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## Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

# Advice for firefighters:

### **Protective equipment:**

Wear protective eyeware, gloves, and clothing. Refer to Section 8.

#### Additional information (precautions):

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes and clothing. Avoid dust generation.

## **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

#### **Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

## Methods and material for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Wear protective eyeware, gloves, and clothing. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Refer to Section 8.

## Reference to other sections: None

# **SECTION 7: Handling and storage**

## Precautions for safe handling:

Avoid dust generation. Avoid contact with skin, eyes and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances. Refer to Section 13.

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

Store under nitrogen. Recommended storage temperature: 2 - 8°C. Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

#### **SECTION 8: Exposure controls/personal protection**



**Control parameters:** 

Appropriate engineering controls:







76-03-9, Trichloroacetic acid, TWA 1 ppm USA. ACGIH. 76-03-9, Trichloroacetic acid, TWA 1 ppm 7 mg/m3 USA. OSHA. 76-03-9, Trichloroacetic acid, TWA 1 ppm 7 mg/m3 USA. NIOSH.

S: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

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Respiratory protection:	Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.	
Protection of skin:	Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.	
Eye protection:	Face shield and safety glasses are appropriate eye protection. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	
General hygienic measures:	Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Before re-wearing, wash contaminated clothing.	

## **SECTION 9: Physical and chemical properties**

Appearance (physical state, color):	White flakes	Explosion limit lower: Explosion limit upper:	
Odor:		Vapor pressure at 20°C:	1 hPa at 51 °C
Odor threshold:		Vapor density:	5.64 - (Air = 1.0)
pH-value:	1 at 81.7 g/l at 25 °C	Relative density:	1.62 g/cm3 at 25 °C
Melting/Freezing point:		Solubilities:	Soluble in water: Completely 81.7 g/l at 20 °C
Boiling point/Boiling range:	196 °C	Partition coefficient (n- octanol/water):	log pow: 1.645
Flash point (closed cup):	> 113 °C	Auto/Self-ignition temperature:	
Evaporation rate:		Decomposition temperature:	
Flammability (solid, gaseous):		Viscosity:	a. Kinematic: b. Dynamic:
Density at 20°C:		•	

# **SECTION 10: Stability and reactivity**

## **Reactivity:**

Nonreactive under normal conditions.

# Chemical stability:

Stable under normal conditions.

### Possible hazardous reactions:

None under normal processing.

## **Conditions to avoid:**

Dust generation. Heat. Exposure to moisture. Incompatible materials.

# Incompatible materials:

Strong oxidizing agents, Strong bases, Amines.

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Hazardous decomposition products: None

#### **SECTION 11: Toxicological information**

Acute Toxicity: No additional information. Chronic Toxicity: No additional information. Skin corrosion/irritation: No additional information. Serious eye damage/irritation:

Eyes - rabbit Result: Severe eye irritation - 5 s 76-03-9.

**Respiratory or skin sensitization**: No additional information. **Carcinogenicity**: No additional information.

Germ cell mutagenicity: No additional information. Reproductive Toxicity: No additional information. STOT-single and repeated exposure: No additional information. Additional toxicological information:

No additional information.

### **SECTION 12: Ecological information**

## **Ecotoxicity:**

76-03-9, LC50 - Pimephales promelas (fathead minnow) - 2.000 mg/l - 96.0 h. 76-03-9, EC50 - Daphnia magna (Water flea) - 1,460 - 2,000 mg/l - 48 h.

#### Persistence and degradability:

Zahn-Wellens Test - Exposure time 27 dSigma-Aldrich - T6399 Page 7 of 8 Result: 5 % - Not readily biodegradable.

**Bioaccumulative potential**: No additional information. **Mobility in soil**: No additional information. **Other adverse effects**: No additional information.

## **SECTION 13: Disposal considerations**

#### Waste disposal recommendations:

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

### **SECTION 14: Transport information**

### **US DOT**

**UN Number:** ADR, ADN, DOT, IMDG, IATA

1839

Limited Quantity Exception:

None

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Bulk: RQ (if applicable): None Proper shipping Name: Trichloroacetic acid solution. Hazard Class: 8 Packing Group: III. Marine Pollutant (if applicable): No additional information. Comments: None Non Bulk: RQ (if applicable): None Proper shipping Name: Trichloroacetic acid solution. Hazard Class: 8 Packing Group: III. Marine Pollutant (if applicable): No additional information. Comments: None





**SECTION 15: Regulatory information** 

## **United States (USA)**

SARA Section 311/312 (Specific toxic chemical listings):

Acute,Chronic

## SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

### RCRA (hazardous waste code):

None of the ingredients are listed.

### TSCA (Toxic Substances Control Act) :

All ingredients are listed.

### CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

## Proposition 65 (California):

## Chemicals known to cause cancer:

None of the ingredients are listed.

## Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

## Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

### Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

### Canada

## Canadian Domestic Substances List (DSL) :

All ingredients are listed.

### **SECTION 16: Other information**

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. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety

according to 29CFR1910/1200 and GHS Rev. 3

## Initial preparation date: : 02.11.2015

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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: 3-0-0 HMIS: 3-0-0 GHS Full Text Phrases: None

Abbreviations and Acronyms: None