

# SAFETY DATA SHEET

Issuing Date 03-Nov-2010 Revision Date 08-Jan-2016 Revision Number 2

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Trichloroacetic Acid

Other means of identification

Product Code(s) 0133 UN/ID no. 1839

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use For Further Manufacturing Use Only.
Uses advised against Not for Human or Animal Drug Use

Details of the supplier of the safety data sheet

Company AddressManufacturer AddressVWR International, LLCVWR International, LLCRadnor Corporate Center28600 Fountain Parkway100 Matsonford RoadSolon, Ohio 44139

Radnor, PA 19087-8660

Company Phone Number 1-800-448-4442 E-mail Address info@amresco-inc.com

**Emergency Telephone Number** 

Emergency Telephone Number Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Carcinogenicity	Category 2

### Label elements

# **Emergency Overview**

#### Danger

#### Hazard statements

H314 - Causes severe skin burns and eye damage

H351 - Suspected of causing cancer



Appearance White Deliquescent

Physical State Crystals

Odor No information available

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

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

Wash face, hands and any exposed skin thoroughly after handling

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

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

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

Wash contaminated clothing before reuse

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 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not regulated

# Other Information

- May be harmful if swallowed
- · Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Trichloroacetic acid	76-03-9	200-927-2	95-100	Not applicable

# 4. FIRST AID MEASURES

### First Aid Measures

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Consult a physician.

**Inhalation** Move to fresh air. If breathing becomes difficult, give oxygen, Aspiration into lungs can

produce severe lung damage. Consult a physician.

Ingestion Clean mouth with water and afterwards drink plenty of water. DO NOT induce vomiting

unless directed to do so by a physician or poison control center.

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

Most Important Symptoms/Effects No information available.

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

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Dry chemical, CO2, appropriate foam.

Unsuitable Extinguishing Media No information available.

### **Specific Hazards Arising from the Chemical**

No information available.

**Hazardous Combustion** 

Carbon oxides. Hydrogen Chloride gas.

**Explosion Data** 

**Products** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal protection** Ensure adequate ventilation, especially in confined areas.

**Environmental Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological information.

Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

**Handling** Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.

Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Hygroscopic.

Incompatible Products Strong oxidizing agents. Strong bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Trichloroacetic acid	TWA: 0.5 ppm	=	TWA: 1 ppm
76-03-9			TWA: 7 mg/m <sup>3</sup>

**Appropriate engineering controls** 

Engineering Measures Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes. Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Crystals

AppearanceWhite DeliquescentOdorNo information availableColorNo information availableOdor ThresholdNo information available

Property Values Remarks • Method

pH 1.2 Melting point/freezing point 58 °C Boiling Point/Range 198 °C

Flash Point (High in °C)

Evaporation Rate
Flammability (solid, gas)

No information available
No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor Density No information available **Specific Gravity** No information available Water Solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available No information available Kinematic viscosity **Dynamic viscosity** No information available **Explosive Properties** No information available **Oxidizing Properties** No information available

# **Other Information**

Softening Point
Molecular Weight
VOC Content
Density
No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

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**Chemical Stability** 

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** 

None under normal processing.

**Conditions to Avoid** 

Protect from moisture.

**Incompatible Materials** 

Strong oxidizing agents. Strong bases.

Hazardous Decomposition Products

Carbon oxides. Hydrogen chloride gas. Chloroform. Phosgene.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information Corrosive, causes burns Harmful if swallowed Harmful by inhalation

**Inhalation** Harmful by inhalation.

**Eye Contact** Corrosive to the eyes and may cause severe damage including blindness.

**Skin Contact** Contact causes severe skin irritation and possible burns.

**Ingestion** Harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Trichloroacetic acid	= 3320 mg/kg (Rat)	-	-
76-03-9			

### Information on toxicological effects

**Symptoms** No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin Corrosion/Irritation** Causes severe burns.

Serious Eye Damage/Eye Irritation Risk of serious damage to eyes. No information available.

Mutagenic Effects Risk of serious damage to eyes. No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

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Chemical Name	ACGIH	IARC	NTP	OSHA
Trichloroacetic acid	A3	Group 2B	-	X
76-03-9				

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

# Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

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	Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
	Trichloroacetic acid	=	=	-
	76-03-9			

### **Persistence and Degradability**

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Partition coefficient
Trichloroacetic acid 76-03-9	-

Other Adverse Effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Trichloroacetic acid 76-03-9	-	-	-	-

Chemical Name	California Hazardous Waste Status
Trichloroacetic acid	-
76-03-9	

## 14. TRANSPORT INFORMATION

DOT

**UN/ID no.** 1839

Proper shipping name TRICHLOROACETIC ACID

Hazard Class 8
Packing Group ||

IATA

**UN/ID no.** 1839

Proper shipping name TRICHLOROACETIC ACID

Hazard Class 8
Packing Group ||

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies Complies **DSL/NDSL EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS** Complies **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

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**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Trichloroacetic acid	-
76-03-9 ( 95-100 )	

### SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Trichloroacetic acid 76-03-9	-	-	-	-

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Trichloroacetic acid	-	-	-
76-03-9			

# U.S. State Regulations

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65	
Trichloroacetic acid - 76-03-9	Carcinogen	

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Trichloroacetic acid	X	X	X
76-03-9			

### U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

### **16. OTHER INFORMATION**

Issuing Date03-Nov-2010Revision Date08-Jan-2016Revision Note

No information available

## **Disclaimer**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and its Affiliates shall not be held liable for any damage resulting from handling.

**End of Safety Data Sheet** 

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