Printing date 06/03/2024

**1** Identification

GHS02

GHS07

GHS08

Reviewed on 06/03/2024

# · Product identifier • Trade name: 1,1,1,-Trichloroethane, Laboratory Grade · Article number: T7990 · CAS Number: 71-55-6 · EC number: 200-756-3 · Index number: 602-013-00-2 · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586 · Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org · Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666 2 Hazard(s) identification · Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 H225 Highly flammable liquid and vapor. GHS08 Health hazard Carcinogenicity 1B H350 May cause cancer. GHS07 Acute Toxicity - Inhalation 4 H332 Harmful if inhaled. · Label elements · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms

(Contd. on page 2)

<sup>–</sup> US

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#### Trade name: 1,1,1,-Trichloroethane, Laboratory Grade

<ul> <li>Signal word Danger</li> <li>Hazard statements</li> <li>Highly flammable liquid and vapor.</li> <li>Hazard statements</li> <li>Highly flammable liquid and vapor.</li> <li>Hazard statements</li> <li>May cause cancer.</li> <li>Preationary statements</li> <li>Do not handle until all safety precations have been read and understood.</li> <li>Keep container tightly closed.</li> <li>Ground/bond container and receiving equipment.</li> <li>Use explosion-proof electrical/ventilating/lighting/equipment.</li> <li>Use only non-sparking tools.</li> <li>Take precationary measures against static discharge.</li> <li>Avoid breating dust/parostyporty</li> <li>Use only outdoors or in a vell-ventilated area.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>If F KPANED: Remove person to fresh air and keep confortable for breathing.</li> <li>F exposed or concerned: Get medical advice/attention.</li> <li>Call a poison center/doctor if you feel unwell.</li> <li>In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>Store in a well-ventilated place. Keep cool.</li> <li>MPA ratings (scale 0 - 4)</li> <li>Fire = 3 Reactivity = 0</li> <li>Halth = *1 Fire = 3 Reactivity = 0</li> <li>Halth = *1 Fire = 3 Reactivity = 0</li> <li>Halth = *1 Fire = 3 Reactivity = 0</li> <li>Other haards</li> <li>Reastlys of PBT and vPvB assessment.</li> <li>PST: Not applicable.</li> </ul> 3 Composition/information on ingredients	Highly flammable liquid and vapor. Highly flammable liquid and vapor. Harmful if inhaled. May cause cancer. Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. <b>Classification system:</b> NFPA ratings (scale 0 - 4) Health = 0 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) WEALTH I Health = *1	
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3 Composition/information on ingredients	v <b>PvB:</b> Not applicable.	
3 Composition/information on ingredients		
3 Composition/information on ingredients		
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CAS No. Description
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CAS: 71-55-6 1,1,1-trichloroethane
Identification number(s)
EC number: 200-756-3

- Index number: 602-013-00-2

(Contd. on page 3)

US

Printing date 06/03/2024

Reviewed on 06/03/2024

#### Trade name: 1,1,1,-Trichloroethane, Laboratory Grade

(Contd. of page 2)

#### **4** First-aid measures

· Description of first aid measures

· General information:

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

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

## **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **6** Accidental release measures

- *Personal precautions, protective equipment and emergency procedures* Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

*Ensure adequate ventilation.* 

#### · 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.
- · Protective Action Criteria for Chemicals
- · PAC-1: 230 ppm
- · PAC-2: 600 ppm
- · PAC-3: 4,200 ppm

#### 7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

(Contd. on page 4)

<sup>•</sup> US

Printing date 06/03/2024

Reviewed on 06/03/2024

#### Trade name: 1,1,1,-Trichloroethane, Laboratory Grade

(Contd. of page 3)

Protect against electrostatic charges.

 $\cdot$  Conditions for safe storage, including any incompatibilities

· Storage:

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

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

### 8 Exposure controls/personal protection

Protective gloves

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Com	ponents with limit values that require monitoring at the workplace:
CAS	: 71-55-6 1,1,1-trichloroethane
PEL	Long-term value: 1900 mg/m <sup>3</sup> , 350 ppm
REL	Ceiling limit value: 1900* mg/m³, 350* ppm *15-min; See Pocket Guide App. C
TLV	Short-term value: 450 ppm Long-term value: 350 ppm BEI, A4
· Ingr	edients with biological limit values:
CAS	: 71-55-6 1,1,1-trichloroethane
	20 ppm LD50 Intraperitoneal: end-exhaled air Time: prior to shift at end of workweek LD50: Methyl chloroform
	700 μg/L LD50 Intraperitoneal: urine Time: end of shift LD50: Methyl chloroform
· Expo · Pers	tional information: The lists that were valid during the creation were used as basis. osure controls onal protective equipment:
Keep Wasl Store	eral protective and hygienic measures: b away from foodstuffs, beverages and feed. h hands before breaks and at the end of work. e protective clothing separately. hthing equipment:
In ca respi	thing equipment: use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use iratory protective device that is independent of circulating air. ection of hands:



– US

Printing date 06/03/2024

Reviewed on 06/03/2024

#### Trade name: 1,1,1,-Trichloroethane, Laboratory Grade

(Contd. of page 4)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  $\cdot$  *Material of gloves* 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing

#### 9 Physical and chemical properties

<ul> <li>Information on basic physical and cl</li> <li>General Information</li> </ul>	hemical properties
· Appearance:	
Form:	Fluid
Color:	Colorless
· Odor:	Like chlorine
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-30.4 °C (-22.7 °F)
<b>Boiling point/Boiling range:</b>	74 °C (165.2 °F)
· Flash point:	0 °C (32 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	537 °C (998.6 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	8 Vol %
Upper:	15.5 Vol %
· Vapor pressure at 20 °C (68 °F):	133 hPa (99.8 mm Hg)
· Vapor pressure at 50 °C (122 °F):	445 hPa (333.8 mm Hg)
· Density at 20 °C (68 °F):	1.34 g/cm <sup>3</sup> (11.1823 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
$\cdot$ Evaporation rate	Not determined.

Printing date 06/03/2024

Reviewed on 06/03/2024

Trade name: 1,1,1,-Trichloroethane, Laboratory Grade

		(Contd. of page
· Solubility in / Miscibility with		
Water at 20 °C (68 °F):	0.13 g/l	
· Partition coefficient (n-octanol/wa	t <b>ter):</b> Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Other information	No further relevant information available.	

#### **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:

Inhalative LC50/4h 11 mg/l (ATE)

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) 2A
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

## **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

(Contd. on page 7)

-us

Printing date 06/03/2024

Reviewed on 06/03/2024

### Trade name: 1,1,1,-Trichloroethane, Laboratory Grade

(Contd. of page 6)

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• Other adverse effects No further 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.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

· UN-Number · DOT, IMDG, IATA	UN2831	
· UN proper shipping name · DOT · IMDG, IATA	1,1,1-Trichloroethane 1,1,1-TRICHLOROETHANE	
· Transport hazard class(es)		
DOT		
TOXIC 8		
· Class	6.1 Toxic substances	
· Label	6.1	
· Class	6.1 Toxic substances	
Label	6.1	
· Packing group · DOT, IMDG, IATA	111	
Environmental hazards:		
Marine pollutant:	No	
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number:	Warning: Toxic substances 60 F-A,S-A	
· Segregation groups	(SGG10) Liquid halogenated hydrocarbons	
Stowage Category	A	
· Stowage Code	SW2 Clear of living quarters.	

Printing date 06/03/2024

Reviewed on 06/03/2024

#### Trade name: 1,1,1,-Trichloroethane, Laboratory Grade

	(Contd. of page 7
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
Hazardous substance:	1000 lbs, 454 kg
IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(EQ)$	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 2831 1,1,1-TRICHLOROETHANE, 6.1, III

## **15 Regulatory information**

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

- · Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) II
- · TLV (Threshold Limit Value) A4
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



Signal word Danger
Hazard statements
Highly flammable liquid and vapor.
Harmful if inhaled.
May cause cancer.
Precautionary statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.

(Contd. on page 9)

<sup>–</sup> US

Printing date 06/03/2024

Reviewed on 06/03/2024

#### Trade name: 1,1,1,-Trichloroethane, Laboratory Grade

	(Contd. of page 8)
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation.	5.
· National regulations:	
· Information about limitation of use:	
Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the certain cases.	<i>ie authorities in</i>

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **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.

- · Department issuing SDS: Environment protection department.
- · Contact:

Date of Preparation / Last Revision:

• Date of preparation / last revision Revision 1.2, 06/03/2024: Reviewed SDS for accuracy. MH/STN Revision 1.0, 01-17-2019: completely recreated SDS. Original had incorrect ingredients. STN 06/03/2024

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances 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 LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Inhalation 4: Acute toxicity - Category 4 Carcinogenicity 1B: Carcinogenicity - Category 1B • \* Data compared to the previous version altered.