

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 1 of 12

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trichloroacetic acid >= 99.5%

REACH Registration Number: 01-2119485186-30-XXXX  
CAS No: 76-03-9  
Index No: 607-004-00-7  
EC No: 200-927-2

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Reagents and laboratory chemicals  
Only for laboratory and analysis purposes.

#### Uses advised against

Do not use for private purposes (household).

### 1.3. Details of the supplier of the safety data sheet

#### Details of the supplier of the safety data sheet

Company name: AnalytiChem Services, Unipessoal, Lda  
Street: Rua de Júlio Dinis 676 7º  
Place: P-4050-320 Porto  
Telephone: +351 226002917  
E-mail: info@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Internet: www.analytichem.com  
Responsible Department: SDS service department

#### Supplier or manufacturer details

Company name: AnalytiChem GmbH  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0  
E-mail: info@analytichem.de  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Internet: www.analytichem.de  
Responsible Department: AnalytiChem  
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20  
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200  
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848  
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500  
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378  
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701  
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 2 of 12

#### 1.4. Emergency telephone number:

+353 1 901 4670 (CHEMTREC)

#### Further Information

No data available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Skin Corr. 1A; H314  
STOT SE 3; H335  
Aquatic Acute 1; H400  
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



#### Hazard statements

H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 IF exposed or concerned:  
P310 Immediately call a POISON CENTER/doctor.

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Sum formula: C<sub>2</sub>HCl<sub>3</sub>O<sub>2</sub>  
Molecular weight: 163,38 g/mol

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 3 of 12

#### Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
76-03-9	trichloroacetic acid			100 %
	200-927-2	607-004-00-7	01-2119485186-30-XXXX	
	Skin Corr. 1A, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H314 H335 H400 H410			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
76-03-9	200-927-2	trichloroacetic acid	100 %
	oral: LD50 = 4970 mg/kg STOT SE 3; H335: >= 1 - 100		

#### Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Self-protection of the first aider

#### After inhalation

Provide fresh air.

Call a physician immediately.

#### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

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

Irritant

corrosive

Dyspnoea

Cough

Risk of serious damage to eyes.

Unconsciousness

Gastrointestinal complaints

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

No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 4 of 12

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

no restriction

### 5.2. Special hazards arising from the substance or mixture

Non-combustible solids

Hazardous combustion products

In case of fire may be liberated:

Hydrogen chloride (HCl)

Phosgene

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Avoid contact with skin, eyes and clothes.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

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

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Take up carefully when dry. Take up dust-free and set down dust-free.

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

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

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.4. Reference to other sections

Safe handling: see section 7

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 5 of 12

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

- Read label before use. Handle and open container with care.
- When using do not eat, drink, smoke, sniff. Keep container tightly closed.
- Use personal protection equipment. Use extractor hood (laboratory).
- Avoid dust formation. Do not breathe dust.
- Provide adequate ventilation.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

#### Further information on handling

- Take off immediately all contaminated clothing and wash it before reuse.
- Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

- Store in a well-ventilated place. Keep container tightly closed.
- Keep container dry.
- Unsuitable container/equipment material: Metal

#### Hints on joint storage

national regulations

#### Further information on storage conditions

- Keep cool. Protect from sunlight.
- storage temperature: +15°C - +25°C

### 7.3. Specific end use(s)

Laboratory chemicals

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
76-03-9	Trichloroacetic acid	0.5	-		TWA (8 h)	

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Trichloroacetic acid &gt;= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 6 of 12

## DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
76-03-9	trichloroacetic acid			
Worker DNEL, long-term		inhalation	systemic	124,3 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	124,3 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	1,41 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	1,41 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	61,3 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	61,3 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,705 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	0,705 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,705 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	0,705 mg/kg bw/day

## PNEC values

CAS No	Substance		
Environmental compartment			Value
76-03-9	trichloroacetic acid		
Freshwater			0,00017 mg/l
Freshwater (intermittent releases)			0,0027 mg/l
Marine water			0,000017 mg/l
Freshwater sediment			0,000143 mg/kg
Marine sediment			0,000014 mg/kg
Secondary poisoning			23,5 mg/kg
Micro-organisms in sewage treatment plants (STP)			100 mg/l
Soil			0,0046 mg/kg

## 8.2. Exposure controls

## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

## Individual protection measures, such as personal protective equipment

## Eye/face protection

goggles

Face protection umbrella

## Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 7 of 12

Recommended glove articles: KCL 897 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Recommended glove articles: KCL 720 Camapren®

Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm

Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

#### Skin protection

Protective clothing, acid-resistant

Take off immediately all contaminated clothing and wash it before reuse.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

#### Respiratory protection

Respiratory protection necessary at: dust formation

Filtering device with filter or ventilator filtering device of type: B

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	colourless
Odour:	stinging
Melting point/freezing point:	54-56 °C
Boiling point or initial boiling point and boiling range:	197 °C
Flammability:	No data available
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	>110 °C
Auto-ignition temperature:	711 °C
Decomposition temperature:	No data available
pH-Value (at 20 °C):	<1 (50 g/l)
Water solubility: (at 20 °C)	1300 g/l
Solubility in other solvents	No data available
Partition coefficient n-octanol/water:	log Pow: 1,33
Vapour pressure: (at 20 °C)	1 hPa
Vapour pressure:	No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 8 of 12

Density:	1,63 g/cm <sup>3</sup>
Bulk density:	900 kg/m <sup>3</sup>
Relative vapour density:	No data available

#### **9.2. Other information**

##### **Information with regard to physical hazard classes**

###### **Explosive properties**

No data available

###### **Sustained combustibility:**

No data available

###### **Self-ignition temperature**

Solid:

No data available

Gas:

No data available

###### **Oxidizing properties**

No data available

##### **Other safety characteristics**

###### **Evaporation rate:**

No data available

###### **Solvent separation test:**

No data available

###### **Solvent content:**

No data available

###### **Solid content:**

No data available

###### **Sublimation point:**

No data available

###### **Softening point:**

No data available

###### **Pour point:**

No data available

###### **Viscosity / dynamic:**

(at 20 °C)

No data available

###### **Flow time:**

No data available

##### **Further Information**

No data available

## SECTION 10: Stability and reactivity

#### **10.1. Reactivity**

No data available

#### **10.2. Chemical stability**

Protect against: Humidity

#### **10.3. Possibility of hazardous reactions**

Danger of explosion: silver salts

Exothermic reaction with:

alkalines

Dimethylsulfoxide (DMSO)

Amines

Oxidising agent, strong,

#### **10.4. Conditions to avoid**

Humidity

Heat

#### **10.5. Incompatible materials**

Metal

#### **10.6. Hazardous decomposition products**

in case of fire, see:

SECTION 5: Firefighting measures

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 9 of 12

#### Further information

No data available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicokinetics, metabolism and distribution

No data available

#### Acute toxicity

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

If swallowed danger of perforation of the esophagus and the stomach ( strong corrosive effects).

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

Inhalation effect: Damage to the respiratory tract.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
76-03-9	trichloroacetic acid				
	oral	LD50 mg/kg	4970 Mouse	Publication (1941)	The acute toxicity was determined for tr

#### Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause respiratory irritation. (trichloroacetic acid)

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### Specific effects in experiment on an animal

No data available

#### Additional information on tests

No data available

#### Practical experience

No data available

### 11.2. Information on other hazards

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Other information

Irritant

corrosive

Dyspnoea

Cough

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 10 of 12

Risk of serious damage to eyes.

Unconsciousness

Gastrointestinal complaints

#### Further information

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
76-03-9	trichloroacetic acid					
	Acute algae toxicity	ErC50 mg/l	> 100	72 h Chlorella vulgaris	Ecotoxicology and Environmental Safety 7	OECD Guideline 201

### 12.2. Persistence and degradability

59 %; 20 d

Not readily biodegradable (according to OECD criteria)

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
76-03-9	trichloroacetic acid	1,33

#### BCF

CAS No	Chemical name	BCF	Species	Source
76-03-9	trichloroacetic acid	3,162	not applicable	Calculation (2008)

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

### 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Harmful effect due to pH shift.

#### Further information

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not mix with other wastes.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 11 of 12

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## SECTION 14: Transport information

### Land transport (ADR/RID)

<b>14.1. UN number or ID number:</b>	UN 1839
<b>14.2. UN proper shipping name:</b>	TRICHLOROACETIC ACID
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8
Classification code:	C4
Limited quantity:	1 kg
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E

### Inland waterways transport (ADN)

<b>14.1. UN number or ID number:</b>	UN 1839
<b>14.2. UN proper shipping name:</b>	TRICHLOROACETIC ACID
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8
Classification code:	C4
Limited quantity:	1 kg
Excepted quantity:	E2

### Marine transport (IMDG)

<b>14.1. UN number or ID number:</b>	UN 1839
<b>14.2. UN proper shipping name:</b>	TRICHLOROACETIC ACID, solid
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8
Special Provisions:	-
Limited quantity:	1 kg
Excepted quantity:	E2
EmS:	F-A, S-B

### Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number or ID number:</b>	UN 1839
<b>14.2. UN proper shipping name:</b>	TRICHLOROACETIC ACID
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	II
Hazard label:	8
Limited quantity Passenger:	5 kg
Passenger LQ:	Y844
Excepted quantity:	E2
IATA-packing instructions - Passenger:	859
IATA-max. quantity - Passenger:	15 kg
IATA-packing instructions - Cargo:	863
IATA-max. quantity - Cargo:	50 kg

### 14.5. Environmental hazards

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Trichloroacetic acid >= 99.5%

Revision: 04.11.2025

Product code: AC12.00354

Page 12 of 12

ENVIRONMENTALLY HAZARDOUS: Yes  
Danger releasing substance: trichloroacetic acid

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive 2012/18/EU (SEVESO III):

E1 Hazardous to the Aquatic Environment

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

## SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 11.

#### Abbreviations and acronyms

Skin Corr. 1A: Skin corrosion, sub-category 1A

Eye Dam. 1: Serious eye damage, hazard category 1

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1

#### Relevant H and EUH statements (number and full text)

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Provide appropriate information, instructions and training to users