

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No. 2020/878



**Trade name :** 112960 - Trichloroacetic acid, ACS (Reag. Ph. Eur.)  
**Revision date :** 04/11/2022 **Version (Revision) :** 3.0.0 (2.0.0)  
**Print date :** 17/02/2023

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

### 1.1 Product identifier

Trichloroacetic acid, ACS (Reag. Ph. Eur.) (112960)  
Trichloroacetic acid ; CAS No. : 76-03-9 ; EC No. : 200-927-2 ; Index No. : 607-004-00-7 ; REACH No. : 01-2119485186-30-0003

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

For manufacturing, processing, laboratory or repacking use only. Use only as intermediate under strictly controlled conditions.

#### Relevant identified uses

#### Uses advised against

Uses other than those recommended.

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

DC Fine Chemicals Ltd

**Street :** 88 Hill Top

**Postal code/City :** NW11 6DY London United Kingdom

**Telephone :** +44 (0)20 7586 6800

**Telefax :** +44 (0)20 7504 1701

**Information contact :** info@dcfinechemicals.com

### 1.4 Emergency telephone number

(Only available during office hours; Monday-Friday; 08:00-18:00)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1A ; H314 - Skin corrosion/irritation : Category 1A ; Causes severe skin burns and eye damage.  
Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.  
Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Chronic 1 ; Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Corrosion (GHS05) · Environment (GHS09)

##### Signal word

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## DANGER

### Hazard components for labelling

Trichloroacetic acid ; CAS No. : 76-03-9

### Hazard statements

- H314 Causes severe skin burns and eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

- P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P310 Immediately call a POISON CENTER/doctor.  
P321 Specific treatment (see on this label).  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of content / container in accordance with procedures.

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

**Substance name :** Trichloroacetic acid

**Index No. :** 607-004-00-7

**EC No. :** 200-927-2

**REACH No. :** 01-2119485186-30-0003

**CAS No. :** 76-03-9

**Purity :** 100 % [mass]

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. If accidentally ingested, seek immediate medical attention, NEVER induce vomiting. Remove victim out of the danger area. When in doubt or if symptoms are observed, get medical advice.

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

Contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required. Accidental contact may result in serious respiratory difficulties, alteration of the central nervous system and in extreme cases, unconsciousness. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Extinguisher powder or CO<sub>2</sub>. In case of more serious fires, also alcohol-resistant foam and water spray.

#### Unsuitable extinguishing media

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

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

Special risks: Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

### 5.3 Advice for firefighters

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Wear a self-contained breathing apparatus and chemical protective clothing. Do not inhale explosion and combustion gases.

### 5.4 Additional information

Fire protection equipment: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

## SECTION 6: Accidental release measures

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

Clear spills immediately.

#### For non-emergency personnel

Wear a self-contained breathing apparatus and chemical protective clothing. Remove persons to safety.

#### For emergency responders

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

### 6.2 Environmental precautions

Dangerous product for the environment. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Retain contaminated washing water and dispose it.

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

#### For containment

Collect in closed and suitable containers for disposal.

#### For cleaning up

The contaminated area should be cleaned up immediately with: Water Soak up inert absorbent and dispose as waste requiring special attention. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Avoid dust formation.

### 6.4 Reference to other sections

Reference to other sections Disposal: see section 13 Personal protection equipment: see section 8

## SECTION 7: Handling and storage

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## 7.1 Precautions for safe handling

### Protective measures



When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8).

### Measures to prevent aerosol and dust generation

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray. Do not breathe dust.

### Environmental precautions

Use appropriate container to avoid environmental contamination.

### Specific requirements or handling rules

Handle and open container with care.

### Advices on general occupational hygiene

Take care for general good hygiene and housekeeping.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

#### Storage temperature :

Keep in a cool, well-ventilated place.

### Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product.

### Hints on joint storage

Store at least 3 metres apart from: Chemicals/products that react together readily

**Storage class (TRGS 510) :** 8A

## 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL-/PNEC-values

##### DNEL/DMEL

Trichloroacetic acid ; CAS No. : 76-03-9

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Exposure frequency : Short-term

Limit value : 0.7 mg/kg

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 0.7 mg/kg

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 61 mg/m<sup>3</sup>

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Limit value type :	DNEL Consumer (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	61 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Short-term
Limit value :	0.7 mg/kg
Limit value type :	DNEL Consumer (systemic)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	0.7 mg/kg
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	1.4 mg/kg
Limit value type :	DNEL worker (systemic)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	1.4 mg/kg
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	124 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	124 mg/m <sup>3</sup>

## PNEC

Trichloroacetic acid ; CAS No. : 76-03-9

Limit value type :	PNEC (Aquatic, freshwater)
Exposure route :	Water (Including sewage plant)
Exposure time :	Short-term
Limit value :	0.00017 mg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Exposure route :	Water (Including sewage plant)
Exposure time :	Short-term
Limit value :	0.0027 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Exposure route :	Water (Including sewage plant)
Exposure time :	Short-term
Limit value :	0.017 mg/m <sup>3</sup>
Limit value type :	PNEC (Sediment, freshwater)
Exposure route :	Water (Including sewage plant)
Exposure time :	Short-term
Limit value :	0.00014 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Exposure route :	Water (Including sewage plant)
Exposure time :	Short-term

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Limit value :	0.014 ppb
Limit value type :	PNEC (Soil)
Exposure route :	Soil
Exposure time :	Short-term
Limit value :	0.0046 mg/kg
Limit value type :	PNEC (Sewage treatment plant)
Exposure route :	Water (Including sewage plant)
Exposure time :	Short-term
Limit value :	100 mg/l

## 8.2 Exposure controls

Only wear fitting, comfortable and clean protective clothing.

### Personal protection equipment

#### Eye/face protection



Eye glasses with side protection Face protection shield EN 166

#### Skin protection

##### Hand protection



Tested protective gloves must be worn EN ISO 374  
chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

The quality of the protective gloves resistant to

##### Body protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working



clothes). Wash contaminated clothing prior to re-use.

#### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.



The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Particle filter device (EN 143).

#### Thermal hazards

No information available.

#### Environmental exposure controls

No information available.

## SECTION 9: Physical and chemical properties

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## 9.1 Information on basic physical and chemical properties

**Appearance :** solid

### Safety characteristics

<b>Melting point/freezing point :</b>	( 1013 hPa )	56	°C
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	197	°C
<b>Decomposition temperature :</b>	( 1013 hPa )	No data available	
<b>Flash point :</b>	>	110	°C
<b>Auto-ignition temperature :</b>		711	°C
<b>Lower explosion limit :</b>		No data available	
<b>Upper explosion limit :</b>		No data available	
<b>Vapour pressure :</b>	( 50 °C )	No data available	
<b>Density :</b>	( 20 °C )	1.63	g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )	not applicable	
<b>Water solubility :</b>	( 20 °C )	1300	g/l
<b>Fat solubility :</b>	( 20 °C )	No data available.	
<b>pH :</b>	( 20 °C / 5 Weight-% ) <	1	
<b>log P O/W :</b>		1.33	
<b>Flow time :</b>	( 20 °C )	No data available	DIN-cup 4 mm
<b>Viscosity :</b>	( 20 °C )	No data available	
<b>Relative vapour density :</b>	( 20 °C )	5.64	(air = 1)
<b>Evaporation rate :</b>		No data available	
<b>Flammable solids :</b>	No data available.		
<b>Flammable gases :</b>	No data available.		
<b>Explosive properties :</b>	No data available.		

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product does not present hazards by their reactivity.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature. Safe handling: see section 7

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Avoid any improper handling.

### 10.5 Incompatible materials

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

### 10.6 Hazardous decomposition products

Depending on conditions of use, can be generated the following products: Corrosive vapors or gases.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Acute oral toxicity

Parameter : LD50 ( Trichloroacetic acid ; CAS No. : 76-03-9 )

Exposure route : Oral

Species : Rat

Effective dose : 3320 mg/kg

Parameter : LD50 ( Trichloroacetic acid ; CAS No. : 76-03-9 )

Exposure route : Oral

Species : Mouse

Effective dose : 4970 mg/kg

#### Corrosion

##### Skin corrosion/irritation

No information available.

##### Serious eye damage/eye irritation

No information available.

#### Respiratory or skin sensitisation

No information available.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### Carcinogenicity

No information available.

##### Germ cell mutagenicity

No information available.

##### Reproductive toxicity

No information available.

#### STOT-single exposure

No information available.

#### STOT-repeated exposure

No information available.

#### Aspiration hazard

No information available.

### 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( Trichloroacetic acid ; CAS No. : 76-03-9 )

Species : Leuciscus idus (golden orfe)



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Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 1 g/l  
Exposure time : 48 h

#### Acute (short-term) toxicity to crustacea

Parameter : EC10 ( Trichloroacetic acid ; CAS No. : 76-03-9 )

Species : Pseudomonas putida

Evaluation parameter : Acute (short-term) toxicity to crustacea

Effective dose : 2 mg/l

Parameter : EC5 ( Trichloroacetic acid ; CAS No. : 76-03-9 )

Species : Pseudomonas putida

Evaluation parameter : Acute (short-term) toxicity to crustacea

Effective dose : > 1 mg/l

Exposure time : 16 h

#### Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 ( Trichloroacetic acid ; CAS No. : 76-03-9 )

Species : Daphnia magna (Big water flea)

Evaluation parameter : Acute (short-term) toxicity to crustacea

Effective dose : 2 g/l

Exposure time : 48 h

## 12.2 Persistence and degradability

No information available.

## 12.3 Bioaccumulative potential

Parameter : Log KOW ( Trichloroacetic acid ; CAS No. : 76-03-9 )

Partition coefficient n-octanol/water (log value)

Partition coefficient n-octanol/water (log value)

Value : 1.33

## 12.4 Mobility in soil

No information 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

No information available.

## 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation. Follow the provisions of Directive 2008/98/EC regarding waste management. Follow the provisions of Directive 2008/98/EC regarding waste management.

#### Product/Packaging disposal

##### Waste treatment options

Recycle according to official regulations. Evidence for disposal must be provided.

##### Appropriate disposal / Product

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Dispose of waste according to applicable legislation.

## Appropriate disposal / Package

Non-contaminated packages must be recycled or disposed of. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### 14.1 UN number

UN 1839

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

TRICHLOROACETIC ACID

#### Sea transport (IMDG)

TRICHLOROACETIC ACID

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

TRICHLOROACETIC ACID

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 8  
**Classification code :** C4  
**Hazard identification number (Kemler No.) :** 80  
**Tunnel restriction code :** E  
**Special provisions :** LQ 1 kg · E 2  
**Hazard label(s) :** 8 / N

#### Sea transport (IMDG)

**Class(es) :** 8  
**EmS-No. :** F-A / S-B  
**Special provisions :** LQ 1 kg · E 2 · IMDG-Code segregation group 1 - Acids · IMDG-Code segregation group 36 · IMDG-Code segregation group 49  
**Hazard label(s) :** 8 / N

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

**Class(es) :** 8  
**Special provisions :** E 2  
**Hazard label(s) :** 8

### 14.4 Packing group

II

### 14.5 Environmental hazards

**Land transport (ADR/RID) :** Yes

**Sea transport (IMDG) :** Yes (P)

**Air transport (ICAO-TI / IATA-DGR) :** Yes

### 14.6 Special precautions for user

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**Hazard label(s) :**



## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available.

## SECTION 15: Regulatory information

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

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No 1272/2008 [CLP] according to Regulation (EU) No. 2020/878

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

<b>Hazard categories</b>	E1 - HAZARDOUS TO THE AQUATIC ENVIRONMENT 1
<b>Lower-tier requirements (t)</b>	100
<b>Upper-tier requirements (t)</b>	200

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use

##### Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3

#### National regulations

##### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : 95 - 100 %

##### Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

### 15.2 Chemical Safety Assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients · 07. Hints on joint storage - Storage class · 08. Occupational exposure limit values

### 16.2 Abbreviations and acronyms

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM:	ASTM International, originally known as American Society for Testing and Materials (ASTM)
EINECS:	European Inventory of Existing Commercial Chemical Substances
EC50:	Effective Concentration 50 (Maximum Effective Concentration for 0% of Individuals)
LC50:	Lethal Concentration 50 (Lethal Concentration for 50% of Individuals)
IC50:	Inhibitor Concentration 50 (Inhibitory Concentration for 50% of Individuals)
NOEL:	No Observed Effect Level (Maximum dose without effect)
DNEL:	Derived No Effect Level (Derived no-effect dose)

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DMEL:	Derived Minimum Effect Level (Derived dose of minimal effect)
CLP:	Classification, Labelling and Packaging
CSR:	Chemical Safety Report
LD50:	Lethal Dose 50 (Lethal Dose for 50% of Individuals)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
Codice IMDG:	International Maritime Dangerous Goods code
PBT:	Persistent, bioaccumulative and toxic
RID:	Regulations concerning the international rail transport of Dangerous Goods
STEL:	Short term exposure limit
TLV:	Threshold limit value
TWA:	Time Weighted Average
UE:	European Union
vPvB:	Very persistent very bioaccumulative
N.D.:	Unavailable
N.A.:	Not applicable
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes

## 16.3 Key literature references and sources for data

None

## 16.4 Relevant H- and EUH-phrases (Number and full text)

H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

## 16.5 Training advice

None

## 16.6 Additional information

None

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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.

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