

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid ≥99 %, Ph.Eur. extra pure

article number: **3744**  
Version: **GHS 4.0 en**  
Replaces version of: 2022-02-18  
Version: (GHS 3)

date of compilation: 2016-01-21  
Revision: 2024-03-02

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

### 1.1 Product identifier

Identification of the substance **Trichloroacetic acid** ≥99 %, Ph.Eur. extra pure  
Article number 3744  
CAS number 76-03-9

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

Relevant identified uses: Laboratory chemical  
Laboratory and analytical use  
Uses advised against: Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:** +49 (0) 721 - 56 06 0  
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**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet: Department Health, Safety and Environment

**e-mail (competent person):** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

### 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 Westmead, NSW	131126	

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	Skin corrosion/irritation	1A	Skin Corr. 1A	H314
3.8R	Specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335

For full text of abbreviations: see SECTION 16

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid $\geq 99\%$ , Ph.Eur. extra pure

article number: 3744

### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

## 2.2 Label elements

### Labelling

#### Signal word

**Danger**

#### Pictograms

GHS05, GHS07



#### Hazard statements

H314

Causes severe skin burns and eye damage

H335

May cause respiratory irritation

#### Precautionary statements

##### **Precautionary statements - prevention**

P260

Do not breathe dusts or mists

P280

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

##### **Precautionary statements - response**

P303+P361+P353

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

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

##### **Precautionary statements - storage**

P403+P233

Store in a well-ventilated place. Keep container tightly closed

##### **Precautionary statements - disposal**

P501

Dispose of contents/container to industrial combustion plant

## 2.3 Other hazards

### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



Trichloroacetic acid ≥99 %, Ph.Eur. extra pure

article number: 3744

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Name of substance	Trichloroacetic acid
Molecular formula	$C_2HCl_3O_2$
Molar mass	163.4 g/mol
CAS No	76-03-9

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

#### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

#### Following ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

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

Corrosion, Risk of blindness, Gastric perforation, Irritation, Cough, Dyspnoea

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings!  
water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

#### Unsuitable extinguishing media

water jet

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



Trichloroacetic acid  $\geq 99\%$ , Ph.Eur. extra pure

article number: 3744

## 5.2 Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

### Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Hydrogen chloride (HCl)

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

## SECTION 6: Accidental release measures

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



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority. The product is an acid. Before discharge into sewage plants the product normally needs to be neutralised.

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

#### Advice on how to contain a spill

Covering of drains. Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically. Control of dust.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Use extractor hood (laboratory). Handle and open container with care. Avoid dust formation. Clear contaminated areas thoroughly.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Store in a dry place.

#### Incompatible substances or mixtures

Observe hints for combined storage.

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid ≥99 %, Ph.Eur. extra pure

article number: 3744

### Consideration of other advice:

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [mg/m <sup>3</sup> ]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
AU	trichloroacetic acid	76-03-9	WES	6.7				WES

#### Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### Human health values

##### Relevant DNELs and other threshold levels

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	1.41 mg/kg	human, dermal	worker (industry)	acute - local effects
DNEL	124.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	124.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
DNEL	1.41 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
DNEL	1.41 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

#### Environmental values

##### Relevant PNECs and other threshold levels

Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	0.000014 mg/cm <sup>3</sup>	unknown	marine sediment	intermittent release
PNEC	0.000017 mg/cm <sup>3</sup>	unknown	marine water	intermittent release
PNEC	0.0027 mg/cm <sup>3</sup>	unknown	air	intermittent release
PNEC	0.00014 mg/cm <sup>3</sup>	unknown	freshwater sediment	intermittent release
PNEC	0.00017 mg/cm <sup>3</sup>	unknown	freshwater	intermittent release

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid ≥99 %, Ph.Eur. extra pure

article number: 3744

Relevant PNECs and other threshold levels				
End-point	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	100 mg/cm <sup>3</sup>	unknown	sewage treatment plant (STP)	intermittent release
PNEC	0.0046 mg/cm <sup>3</sup>	unknown	soil	intermittent release
PNEC	2.7 µg/l	aquatic organisms	water	intermittent release
PNEC	0.17 µg/l	aquatic organisms	freshwater	short-term (single instance)
PNEC	0.017 µg/l	aquatic organisms	marine water	short-term (single instance)
PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
PNEC	0.143 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	0.014 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
PNEC	20 µg/kg	terrestrial organisms	soil	short-term (single instance)

## 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggle with side protection. Wear face protection.

#### Skin protection



#### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

Butyl caoutchouc (butyl rubber)

#### • material thickness

0,7mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid $\geq 99\%$ , Ph.Eur. extra pure

article number: 3744

### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). Type: B (against inorganic gases and vapours, colour code: Grey).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	solid
Form	crystalline
Colour	colourless
Odour	stinging
Melting point/freezing point	54 – 56 °C
Boiling point or initial boiling point and boiling range	197 °C at 1,013 hPa
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	>110 °C
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	<1 (in aqueous solution: 50 g/l, 20 °C)
Kinematic viscosity	not relevant
<u>Solubility(ies)</u>	
Water solubility	~1,320 g/l at 20 °C
<u>Partition coefficient</u>	
Partition coefficient n-octanol/water (log value):	1.33 (OECD 107)
<u>Vapour pressure</u>	
	1 hPa at 20 °C 1.2 hPa at 50 °C
<u>Density and/or relative density</u>	
Density	1.62 g/cm <sup>3</sup> at 20 °C

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid ≥99 %, Ph.Eur. extra pure

article number: 3744

Relative vapour density	5.64 (air = 1)
Bulk density	~900 kg/m <sup>3</sup>
Particle characteristics	No data available.

### Other safety parameters

Oxidising properties none

## 9.2 Other information

Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics: There is no additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

**Violent reaction with:** strong oxidiser, Amines, Copper, Strong alkali

### 10.4 Conditions to avoid

Protect from moisture.

### 10.5 Incompatible materials

metal

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5. Phosgene.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Classification acc. to GHS

#### Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful if swallowed.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	3,320 mg/kg	rat		IUCLID

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.



# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid ≥99 %, Ph.Eur. extra pure

article number: 3744

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

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

#### • If in eyes

causes burns, Causes serious eye damage, risk of blindness

#### • If inhaled

pulmonary oedema, Irritation to respiratory tract, cough, Dyspnoea

#### • If on skin

causes severe burns, causes poorly healing wounds

#### • Other information

none

### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

## SECTION 12: Ecological information

### 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)				
Endpoint	Value	Species	Source	Exposure time
EC50	2,000 mg/l	daphnia magna		48 h
LC50	>1,000 mg/l	orfe (Leuciscus idus)		48 h

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid $\geq 99\%$ , Ph.Eur. extra pure

article number: 3744

Aquatic toxicity (acute)				
Endpoint	Value	Species	Source	Exposure time
LC50	2,000 mg/l	Pimephales promelas		96 h

### 12.2 Persistence and degradability

Theoretical Oxygen Demand: 0.09792 mg/mg  
Theoretical Carbon Dioxide: 0.5387 mg/mg

#### Biodegradation

Not readily biodegradable.

Process of degradability		
Process	Degradation rate	Time
biotic/abiotic	59 %	20 d

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)	1.33 (OECD 107)
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### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid ≥99 %, Ph.Eur. extra pure

article number: 3744

### Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

H8 Corrosives  
H11 Toxic (Delayed or chronic)

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number

UN RTDG	UN 1839
IMDG-Code	UN 1839
ICAO-TI	UN 1839

### 14.2 UN proper shipping name

UN RTDG	TRICHLOROACETIC ACID
IMDG-Code	TRICHLOROACETIC ACID
ICAO-TI	Trichloroacetic acid

### 14.3 Transport hazard class(es)

UN RTDG	8
IMDG-Code	8
ICAO-TI	8

### 14.4 Packing group

UN RTDG	II
IMDG-Code	II
ICAO-TI	II

### 14.5 Environmental hazards

hazardous to the aquatic environment

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

#### Transport informationNational regulationsAdditional information(UN RTDG)

UN number	1839
Class	8
Environmental hazards	Yes Hazardous to the aquatic environment
Packing group	II

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid ≥99 %, Ph.Eur. extra pure

article number: 3744

### Danger label(s)

8  
Fish and tree



### Special provisions (SP)

-  
UN RTDG

### Excepted quantities (EQ)

E2  
UN RTDG

### Limited quantities (LQ)

1 kg  
UN RTDG

### Emergency Action Code

2X

### International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name

TRICHLOROACETIC ACID

Particulars in the shipper's declaration

UN1839, TRICHLOROACETIC ACID, 8, II, MARINE POLLUTANT

Marine pollutant

yes (hazardous to the aquatic environment)

Danger label(s)

8, "Fish and tree"



Excepted quantities (EQ)

E2

Limited quantities (LQ)

1 kg

EmS

F-A, S-B

Stowage category

A

Segregation group

1 - Acids

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name

Trichloroacetic acid

Particulars in the shipper's declaration

UN1839, Trichloroacetic acid, 8, II

Environmental hazards

yes (hazardous to the aquatic environment)

Danger label(s)

8



Excepted quantities (EQ)

E2

Limited quantities (LQ)

5 kg

## Trichloroacetic acid ≥99 %, Ph.Eur. extra pure

article number: 3744

### SECTION 15: Regulatory information

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

There is no additional information.

##### National regulations(Australia)

##### Australian Inventory of Chemical Substances(AICS)

Substance is listed.

##### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

##### National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

##### Legend

AIIC	Australian Inventory of Industrial Chemicals
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



Trichloroacetic acid  $\geq 99\%$ , Ph.Eur. extra pure

article number: 3744

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$ .	yes
14.8		Emergency Action Code: 2X	yes
15.1		National inventories: change in the listing (table)	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
STEL	Short-term exposure limit
TWA	Time-weighted average

# Safety data sheet Safety data sheet

acc. to Safe Work Australia - Code of Practice



## Trichloroacetic acid ≥99 %, Ph.Eur. extra pure

article number: **3744**

Abbr.	Descriptions of used abbreviations
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative
WES	Safe Work Australia: Workplace exposure standards for airborne contaminants

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.