UN GHS REVISION 7

Safety Data Sheet

Trichloroethylene 99.5% AR

Version 1.0, Date of issue: 2026-08-18

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Trichloroethylene 99.5% AR
Product number	2751A 00500
Brand	Chemnovo

1.3 Recommended use of the chemical and restrictions on use

Laboratory reagent

1.4 Supplier's details

Name	Hurst Scientific
Address	2 Transit Place, 6112 Forrestdale WA, Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

1.5 Emergency phone number

Australian Poisons Information Centre 13 11 26

Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement

Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

2.1 Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Carcinogenicity, Cat. 1B
- Germ Cell Mutagenicity, Cat. 2
- Serious Eye Damage/Irritation, Cat. 2A
- Skin Corrosion/Irritation, Cat. 2
- STOT - Single Exposure (narcotic effects), Cat. 3
- Hazardous to the Aquatic Environment (Chronic), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictograms

1. Exclamation mark; 2. Health hazard

Signal word

Danger

Hazard statement(s)

H350	May cause cancer.
H341	Suspected of causing genetic defects.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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+P313	IF exposed or concerned: Get medical advice/attention.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTRE/doctor if you feel unwell.
P321	Specific treatment (see supplemental first-aid instructions on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing. And wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations.

2.3 Other hazards

No information available on PBT / vPvB status or endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

Component	Concentration
Trichloroethylene (CAS: 79-01-6)	**≥ 99.5 – < 100%**
CLASSIFICATIONS: Carcinogenicity, Cat. 1B; Germ Cell Mutagenicity, Cat. 2; STOT – Single Exposure (narcotic effects), Cat. 3; Skin Corrosion/Irritation, Cat. 2; Serious Eye Damage/Irritation, Cat. 2A; Hazardous to the Aquatic Environment (Chronic), Cat. 3. **HAZARDS:** H350 - May cause cancer; H341 - Suspected of causing genetic defects; H336 - May cause drowsiness or dizziness; H315 - Causes skin irritation; H319 - Causes serious eye irritation; H412 - Harmful to aquatic life with long lasting effects.	

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

Eye contact

Flush eyes with copious amounts of water for at least 15 minutes. If irritation develops or persists, seek medical attention.

Skin contact

Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.

Inhalation

Evacuate to fresh air immediately. If unconscious, place in recovery position and provide artificial respiration if breathing ceases. Seek medical attention.

Ingestion

DO NOT induce vomiting. Wash mouth out with copious amounts of water and seek medical attention.

First-aid facilities

Eye wash station, safety shower and First Aid kit.

4.2 Most important symptoms and effects, both acute and delayed

The most important symptoms and effects are described in Section 2 (hazard statements) and Section 11 (toxicological information).

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically. For advice, contact the Poisons Information Centre (Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use an extinguishing medium suitable for the surrounding fire and other material involved. Water spray, dry chemical powder, carbon dioxide or foam.

5.2 Specific hazards arising from the chemical

Combustion may produce toxic and irritating gases. Thermal decomposition or combustion produces hydrogen chloride, phosgene, chlorine and carbon oxides. Self-contained breathing apparatus is required.

5.3 Special protective actions for fire-fighters

Fire fighters should wear self-contained breathing apparatus (SCBA) operated in positive-pressure mode and full protective clothing. Fight the fire from a safe location. Prevent firefighting runoff from entering waterways, drains and sewers. Contain and collect fire-control water for later disposal.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin and eyes. Wear suitable protective equipment (see Section 8). Evacuate non-essential personnel from the area.

6.2 Environmental precautions

Prevent the spill from entering drains, sewers and waterways. In the event of a major spill, contain the material and notify the relevant authorities. This product is hazardous to the aquatic environment — prevent any release to the environment.

6.3 Methods and materials for containment and cleaning up

Contain the spill and prevent entry into drains, sewers and waterways. Absorb with inert absorbent material (e.g. sand, vermiculite or earth) and transfer to a suitable, labelled container for disposal. Rinse the affected area with water. Dispose of in accordance with Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Keep containers tightly closed and upright when not in use. Store away from incompatible materials (see Section 10). Inspect containers regularly for damage or leaks.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Trichloroethylene (CAS: 79-01-6)
AU/SWA (AU): TWA: 10 ppm (54 mg/m³); STEL: 40 ppm (216 mg/m³); Notes: Carc. 1B; Sk

8.2 Appropriate engineering controls

Ensure an adequate ventilation or exhaust system is in place.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standard AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand protection

Use occupational protective gloves complying with AS 2161 (Selection, Use and Maintenance).

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear, colourless
Colour	No data available
Odour	Ethereal odour
Odour threshold	No data available
Melting point/freezing point	-84 °C
Boiling point or initial boiling point and boiling range	86.7 °C
Flammability	No data available
Lower and upper explosion limit/flammability limit	No data available
Flash point	greater than 93.3 °C
Explosive properties	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Oxidising properties	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	less than 1 mg/mL at 21.1 °C
Partition coefficient n-octanol/water (log value)	2.29
Vapour pressure	81.3 hPa at 20°C
Evaporation rate	No data available
Density and/or relative density	1.463 g/cm³
Relative vapour density	No data available
Particle characteristics	No data available
Supplemental information regarding physical hazard classes	No data available
Further safety characteristics (supplemental)	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions of storage and handling.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Direct sunlight. Heat. High temperature. Open flame.

10.5 Incompatible materials

Strong oxidising agents, strong acids, strong bases.

10.6 Hazardous decomposition products

Thermal decomposition or combustion produces hydrogen chloride, phosgene, chlorine and carbon oxides.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

4920 mg/kg (rat, LD50 oral); Dermal LD_{50}: >20 g/kg (rabbit, LD50 skin); 8450 ppm/4H (mouse, LC50 inhalation)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Not expected to be a respiratory or skin sensitiser.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

Carcinogenic to humans

Reproductive toxicity

Not considered to be toxic to reproduction.

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity (STOT) - repeated exposure

Not expected to cause toxicity to a specific target organ through repeated exposure.

Aspiration hazard

Not expected to be an aspiration hazard.

SECTION 12: Ecological information

Toxicity

Harmful to aquatic life with long lasting effects

Persistence and degradability

May cause long-term adverse effects in the environment

Bioaccumulative potential

Log Pow 2.29

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Endocrine disrupting properties

No data available

Other adverse effects

No data available

SECTION 13: Disposal considerations

Product disposal

Dispose of in accordance with local authority guidelines.

Packaging disposal

Dispose of in accordance with local authority guidelines.

Waste treatment

Dispose of in accordance with local authority guidelines.

Sewage disposal

Do not contaminate drains and waterways.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Australian Dangerous Goods Code, 7th Edition)

UN Number	UN1710
Proper shipping name	TRICHLOROETHYLENE
Transport hazard class	6.1
Packing group	III
Hazchem code	2Z
Environmental hazards	Not classified

IMDG (International Maritime Dangerous Goods Code)

UN Number	UN1710
Proper shipping name	TRICHLOROETHYLENE
Transport hazard class	6.1
Packing group	III
Marine pollutant	No

IATA (International Air Transport Association Dangerous Goods Regulations)

UN Number	UN1710
Proper shipping name	TRICHLOROETHYLENE
Transport hazard class	6.1
Packing group	III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Trichloroethylene (CAS: 79-01-6)

Australia SUSMP — Poison Schedule: Schedule 6

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

SECTION 16: Other information

16.1 Further information/disclaimer

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (June 2023).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013).
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code), Volume 1, Edition 7.9 (2023).
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).

16.2 Preparation information

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (June 2023). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used. Copyright © 2026 Hurst Scientific