Camlab Limited - Material Safety Data Sheet

1. Identification

Product Code CC/0711-DH

Product Name TRICHLOROETHYLENE tech.

Molecular Formula CHClCCl₂ =131.39

CAS Number 79-01-6

Supplier:



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(Have this document to hand)

2. Composition

| Component | CAS No | EEC No | Conc w/w | Classification & Risk Phrases | Exp (See 8.1) |
|-------------------|---------|-----------|----------|-------------------------------|---------------|
| Trichloroethylene | 79-01-6 | 201-167-4 | > 99.5% | T : R45,R36/38,R52/53,R67 | WEL |
| | | | | :Carc.Cat 3 | |

3. Hazards Identification



May cause cancer. Irritating to eyes and skin. Harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness. Carcinogen category: 3

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open.

OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and

wash before re-use.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give

oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION

URGENTLY.

Ingestion If conscious give plenty of water to drink. Induce vomiting. If there is difficulty in

breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL

ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-

fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if

involved in a fire. Vapour-air mixtures are explosive.

Extinguishing

Media

Consider what other flammable materials are present and act accordingly. Use water spray to

keep fire exposed containers cool.

Unsuitable

Media

Do not use water jet.

6. Accidental Release Measures

Personal Avoid breathing vapour. Use approved personal protective equipment. Evacuate area

Protection immediately. Do not allow general use of area until it is safe to do so. Beware : vapour is

heavier than air and will tend to accumulate at low spots.

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the

Environmental Agency and local Environmental Health Officer if major spillage occurs.

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal.

Wash area down with detergent and copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Allow

solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste.

Wash area down with detergent and copious amounts of water.

7. Storage & Handling

Handling Precautions Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate

clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended

limits.

Storage Conditions Well ventilated, cool, dry storage . Protect from direct sunlight. Protect against moisture

to prevent decomposition and corrosion.

8.1 Workplace Exposure Limits

Workplace Exposure Limits Long Term (8hr TWA): 100.0 ppm 550.0 mg m-3
Short Term (15min Period): 150.0 ppm 820.0 mg m-3

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Maximum Exposure Limits Long Term (8hr TWA): 100.0 ppm 550.0 mg m-3

Short Term (15min Period): 150.0 ppm 820.0 mg m-3

Special Hazards Can be absorbed through skin.

8.2 Personal Protection

Respiratory Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits.

If not, use a well maintained chemical cartridge organic vapour respirator, or use self

contained breathing apparatus.

Hands Use solvent resistant gloves.

Eyes Use chemical splash proof glasses or goggles.

Skin Avoid contact with skin. If skin contact or contamination of clothing is likely, protective

clothing must be worn.

9. Physical & Chemical Properties

Appearance Clear colourless liquid.
Odour Fresh and characteristic.

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pH Not available
Boiling point 86.7 °C
Melting point 87.0- °C
Flash point Not available

Upper Flammable Limit 90.0 % Lower Flammable Limit 12.5 % Auto Ignition 420.0 °C

Explosive properties Moderate/severe in confined spaces.

Oxidising Properties No.

Vapour Presure 100 mmHg @ 32,C

Relative Density 1.4640 Water Solubility 0.11%

10. Stability & Reactivity

Stable under normal conditions

Conditions to Avoid Hot surfaces and naked flames.

Materials to Avoid Strong oxidising agents. Reacts with potassium, sodium, lithium and their alloys producing

explosive atmospheres of chloroacetylene and dichloroacetylene which will ignite in air.

Hazardous Toxic phosgene fumes.

Decomposition Products

11. Toxicological Information

Both the vapour and liquid will, cause conjunctival irritation and corneal damage. Eyes

Skin Both the vapour and liquid are, mildly irritating to the skin. Repeated exposure may cause

dermatitis.

LD50 Skin Not available

Ingest Ingestion causes similar effects to vapour inhalation.

LD50 Ingest Oral Rat 4920 mg/kg

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce

central nervous system depression. High concentrations of vapour will cause narcosis. Death

may follow due to respiratory failure.

Carcinogen - category 2. Has been shown to be carcinogenic in mice but not rats. There is Carcinogenicity

no evidence for increased cancer incidence in man.

Mutagenicity May be a mutagen.

None identified. Reproductive Effects

Other Information 200ppm causes headache, giddiness, vertigo, depression and lack of co-ordination. Exposure

to 5000ppm for a few minutes leads to narcosis and death.

12. Ecological

Small amounts present no specific environmental hazard.

13. Disposal Considerations

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic

waste.

Contaminated Packaging Use a licensed waste disposer.

14. Transport Information

Proper Shipping Name Trichloroethylene

UN Number 1710 UN Classification 6.1 Toxic Subsidiary Risk None

Flash Point Not available

Packing Group TTT Transport Category 2. Marine pollutant No ADR Hazard ID 60



15. Regulatory Information

Labelling Toxic.

Classification

Label Symbols



15. Regulatory Information (continued)

Risk & safety Phrases

May cause cancer. Irritating to eyes and skin. Harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness. Avoid exposure – obtain special instruction before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label). Avoid release to the environment, refer to special instructions/safety data sheet. Carcinogen category: 3

EEC Number 201-167-4

16. Other Information

Document Information

This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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