

**SAFETY DATA SHEET**  
**TRICHLOROETHYLENE**

**1. PRODUCT & COMPANY IDENTIFICATION**

**PRODUCT: CHEMBUFF**

**Recommended Use:** A rubber cleaning solvent for freshening rubber surfaces for bonding. Metal degreaser.

**Manufacturer:**

Chemvulc Vulcanising Systems Pty Ltd  
1107 Anvil Street  
Robertville  
South Africa

**Telephone:** +27 11 472 1016

**Email:** info@chemvulc.co.za

<b>New Zealand Distributor:</b>	<b>Australia Distributor:</b>	<b>South Africa Distributor:</b>
Chemvulc New Zealand Ltd 155c Manukau Road Pukekohe Auckland New Zealand	Chemvulc Industrial Australia (CIA) Unit 3 11 Precision Place Mulgrave New South Wales	Chemvulc Marketing Pty Ltd 1007 Katrol Street Robertville Roodepoort South Africa

**Other Global Distributors:**

**Please contact Manufacturer**

**Australia Customer Service:** +61 296 471377

**New Zealand Customer Service Toll Free Number:** 0508 CHEMVULC

**South Africa Customer Service:** +27 11 472 1016

**Emergency Telephone:**

**NZ:** 0800 CHEMCALL (0800 243 622)

**AUSTRALIA:** 1-800127406

**SOUTH AFRICA:** +27 21 689 5227 (Poison Centre) 0800 172 743 (Spill Response)

**GLOBAL:** +64 3 3530199

**(24 HRS)(EMERGENCIES ONLY)**

**TRANSPORT EMERGENCY ONLY DIAL:** 111

This SDS may not provide exhaustive guidance for all the HSNO controls assigned to this substance. The EPA website [www.epa.govt.nz](http://www.epa.govt.nz) should be consulted for a full list of triggered controls and cited regulations.

**2. HAZARDOUS IDENTIFICATION**

**UN GHS LABELLING:**

**H315 - Causes skin irritation.**

**H319 - Causes serious eye irritation.**

**H336 - May cause drowsiness or dizziness.**

**H341 - Suspected of causing genetic defects.**

**H350 - May cause cancer.**

**HSNO New Zealand Approval Code:** HSR001555

**HSNO Hazard Classification:**

**Health Hazards**

6.1D - Substances that are acutely toxic - Harmful

6.3A - Substances that are irritating to the skin

6.4A - Substances that are irritating to the eye

6.6B - Substances that are suspected human mutagens

6.7A - Substances that are known or presumed human carcinogens

6.9B - Substances that are harmful to human target organs or systems

**Environmental Hazards**

9.1D - Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS #	Content
Trichloroethylene	79-01-6	99.99%

**4. FIRST AID:**

**Consult the National Poisons Information Centre (See emergency contacts section1) or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause injury. If breathing difficulties occur seek medical attention immediately.**

**EYES:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**SKIN:** Wash skin with plenty of water. If symptoms develop seek medical attention.

**INGESTION:** Do not induce vomiting. Seek medical attention immediately.

**INHALATION:** Remove person from contaminated area, move person to fresh air. Apply artificial respiration if not breathing. Seek medical attention immediately.

**NOTE TO PHYSICIAN:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

**5. FIRE FIGHTING MEASURES:**

**Flash Point:** N/A

**General Measures** - If safe to do so, move undamaged containers from fire area. Do NOT move cargo if cargo has been exposed to heat.

**Flammability Conditions** - No Data Available

**Extinguishing Media** - In case of fire, appropriate extinguishing media include Carbon dioxide , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Fire and Explosion Hazard** - Non-combustible liquid.

**Hazardous Products of Combustion** - Hazardous decomposition products formed under fire conditions.

**Special Fire Fighting Instructions** - Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow firefighting water to reach waterways, drains or sewers. Store firefighting water for treatment.

**Personal Protective Equipment** - Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves) or chemical splash suit.

**Please note:** Structural fire fighters uniform will provide limited protection.

Flash Point: No Data Available

Lower Explosion Limit: 12.5 %

Upper Explosion Limit: 90 %

Auto Ignition Temperature: No Data Available

Hazchem Code: **2Z**

**6. ACCIDENTAL RELEASE MEASURES:****General Response Procedure**

Avoid accidents, clean up immediately. Personnel involved in the clean-up should wear full protective clothing as listed in section 8. Eliminate all sources of ignition. Increase ventilation. Use clean, non-sparking tools and equipment. Do NOT contaminate. Keep combustibles away from spilled material.

**Clean Up Procedures**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). When saturated, collect the material and transfer to a suitable, labelled chemical waste container and dispose of promptly as hazardous waste.

**Containment**

Stop leak if safe to do so.

**Environmental Precautionary Measures**

Do not allow product to reach drains, sewers or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Authority.

**Evacuation Criteria**

Evacuate all unnecessary personnel.

**Personal Precautionary Measures**

Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing as listed in section 8

**7. HANDLING AND STORAGE:****PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

**HANDLING:** Keep out of reach of children. Harmful if swallowed. Causes skin irritation. Avoid contact with skin and clothing. After work, remove protective clothing and equipment, washing hand thoroughly before eating, drinking, chewing gum, using tobacco, or using the toilet. Clean up spilled material immediately, and wash clothes, equipment and work area after use.

**STORAGE:** Store in a tightly closed original container in a cool, dry well ventilated area out of direct sunlight when not in use. This product can be stored in an unheated building. Do not store with food, feedstuffs, fertilizers and seeds. See product label for further handling/storage precautions relative to the end use of this product.

This substance is subject to a requirement for an emergency management plan, secondary containment and signage, whenever it is held in quantities of 1000 litres or more, either alone or with other hazardous substances. See Hazardous substances (Emergency Management) Regulations.

**8. EXPOSURE CONTROLS & PERSONAL PROTECTION:**

**These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.**

A workplace exposure standard (WES) has not been established by the NZ Ministry for Business, Innovation and Employment for this product. The following exposure controls are stated as per OSHA United States Department of Labor.

OSHA US Department of Labor	Ingredient	TWA	STEL
	Trichloroethylene	10ppm (54mg/m <sup>3</sup> )	40ppm (216 mg/m <sup>3</sup> )

**Personal Protective Equipment**

**Eyes:** Protect eyes with safety glasses or face shield. Avoid wearing contact lenses.

**Skin:** Avoid skin contact. Wear protective clothing, safety boots and chemical resistant protective gloves. Inspect PPE is in good condition before use. Remove PPE and wash exposed areas thoroughly with soap and water prior to eating, drinking or smoking.

**Respiratory:** Always work in a well-ventilated area, use an extractor fan if required. Wear a respiratory mask that is fitted with a type A cartridge, suitable for organic vapours. Follow instructions as per site requirements. Ensure that the respiratory mask is equipped for the potential air contamination and is in good working order.

**9. PHYSICAL & CHEMICAL PROPERTIES:**

**APPEARANCE:** Colourless liquid

**ODOR:** Sweet, chloroform like smell

**pH:** N/A

**RELATIVE DENSITY:** N/A

**BOILING POINT:** 87.2°C (140°F)

**VAPOR PRESSURE:** N/A

**SPECIFIC GRAVITY:** 1.46 g/cm<sup>3</sup>

**SOLUBILITY:** Some solubility in water, soluble in ether, ethanol, chloroform

**10. STABILITY & REACTIVITY:**

**General Information** - Toxic Liquid

**Chemical Stability** - Product is stable under normal conditions of use, storage and temperature.

**Conditions to Avoid** - Protect from direct sunlight, heat, moisture and static discharges.

**Materials to Avoid** - Oxidizing agents, Strong bases, Magnesium, alkalis (caustic soda)etc.  
**Hazardous Decomposition Products** - Hazardous decomposition products formed under fire conditions.  
**Hazardous Polymerisation** - No Data Available

#### 11. TOXICOLOGICAL INFORMATION:

**POTENTIAL HEALTH EFFECTS:** This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

**EYES:** Irritating to eyes. Symptoms include itching, burning, redness and tearing. Possible risk of irreversible effects.

**SKIN:** Irritating to skin. Repeated or prolonged contact may cause erythema (reddening of the skin) or dermatitis, resulting from a defatting action on tissue. Possible risk of irreversible effects.

**INGESTION:** Harmful: may cause lung damage if swallowed. Ingestion of this product may cause central nervous system effect including headache, sleepiness, dizziness, slurred speech and blurred vision.

**INHALATION:** Vapors may cause drowsiness and dizziness. Inhalation of high vapor concentrations may cause CNS-depression and narcosis. Severe over exposure may produce more serious symptoms, including coma and risk of kidney damage.

**DELAYED EFFECTS:** Repeated or prolonged exposure may cause conjunctivitis and damage to the respiratory tract and kidney.

**CARCINOGEN CATEGORY:** 2

#### 12. ECOLOGICAL INFORMATION:

**ENVIRONMENTAL FATE:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water even in small quantities. Harmful to aquatic organisms.

**ECOTOXICITY:**

Toxic to aquatic life. Do not release into drains and/or waterways.

#### 13. DISPOSAL CONSIDERATIONS:

**DISPOSAL METHOD:**

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this product must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristics or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws and regulations.

#### 14. REGULATORY INFORMATION:

**DOMESTIC (LAND, D.O.T.)**

**Proper Shipping Name:** TRICHLOROETHYLENE

**Hazard Class:** 6.1

**UN Number:** UN1710

**Packing Group:** III

**Hazchem Code:** 2Z

**AIR TRANSPORT IATA**

**Proper Shipping Name:** TRICHLOROETHYLENE

**Hazard Class:** 6.1

**UN Number:** UN1710

**Packing Group:** III

**Hazchem Code:** 2Z

**Special Provisions:** N/A

**15. REGULATORY INFORMATION:**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval Code: HSR001555. Solvents (Non-Flammable, toxic) Group Standard 1996.

Key workplace requirements:	
MSDS	To be available within 10 minutes in workplaces storing any quantity.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency Plan	Required if >1000L is stored.
Approved Handler	Not required.
Tracking	Not required.
Bundling & secondary containment	Required if >1000L is stored.
Signage	Required if >1000L is stored in any one location.
Location Test Certificate	Not required.
Flammable Zone	Not required.
Fire Extinguisher	Not required.

**16. OTHER INFORMATION:**

The use of this product may come under the Resource Management Acts and regulations, the Health Safety and Employment Act and regulations, local council rules and regional council plans.

Abbreviations	
Approval Code	Approval Code: HSR001555. Solvents (Non-Flammable, toxic) Group Standard 2014, EPA <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
CAS Number	Unique Chemical Abstracts Service Registry Number
Ceiling	Ceiling limit: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at the time
Controls Matrix	List of default controls linking regulation numbers to Marix code (e.g. T1,I16).
EC <sub>50</sub>	Ecotoxic Concentration 50% - concentration in water, which is fatal to 50% of a test population (e.g. daphnia, fish species).
ERMA	Environmental Risk Management Authority (now EPA)
EPA	Environmental Protection Authority
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO	Hazardous Substances and New Organisms (Act and Regulations)
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD <sub>50</sub>	Lethal Dose 50% - dose which is fatal to 50% of a test population (usually rats)
LC <sub>50</sub>	Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population (usually rats).
MBIE	Ministry of Business, Innovation and Employment (New Zealand)
MSDS/SDS	Material Safety Data Sheet or Safety Data Sheet
STEL	Short Term Exposure Limit – The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA was not exceeded.
TWA	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours).
UEL	Upper Explosive Limit
UN Number	United Nations Number
WES	Workplace Exposure Standard – The airborne concentration of a biological or chemical agent to which a worker may be exposed.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properness of the product.

**NEXT REVIEW DATE: 01/04/2023**