

# Safety Data Sheet

## Formsolve 64

### 1: Identification of the material and supplier

#### Names

Product Name: Formsolve 64  
Other Name: Tetrachloroethylene  
Supplier: Chemform Pty Ltd (ABN: 50 008 905 119)  
7 Kirke Street, Balcatta, WA 6021  
Phone (08) 9344 2455 Fax: (08) 9344 4360 Email: [admin@chemform.com.au](mailto:admin@chemform.com.au)  
Emergency Telephone: Poisons Information Centre (Australia) 13 1126  
Recommended Use: Residue-free solvent for degreasing electrical equipment

### 2: Hazardous Identification

**Statement of Hazardous/ Dangerous Nature:** Classified as hazardous according to the criteria of NOHSC and classified as dangerous goods according to Australian Dangerous Goods Code.

**Risk Phrases:** R40 Possible risk of irreversible effects  
R51 Toxic to aquatic organisms  
R53 May cause long-term adverse effects in the aquatic environment.  
**Safety Phrases:** S2 Keep out of reach of children.  
S23 Do not breath fumes, vapour or spray  
S36/37 Wear suitable protective clothing and gloves.  
S61 Avoid release to the environment.

### 3: Composition/Information on Ingredients

INGREDIENT	CAS NUMBER	PROPORTION
Hydrocarbon liquids	64742-88-7	30-60%
Tetrachloroethylene	127-18-4	30-60%

### 4: First Aid Measures

**Ingestion:** If swallowed, do NOT induce vomiting.  
**Eye:** If in eyes, hold eyelids apart and flush the eye continuously with running water for at least 15 minutes. Seek medical assistance.  
**Skin:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.  
**Inhaled:** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.  
**Advice to Doctor:** Treat symptomatically as for exposure to chlorinated solvents. Do not administer sympathomimetic drugs.  
**First Aid Facilities:** Eye wash station, fresh water  
**Long Term Effects:** Evidence from animal tests indicate that repeated or prolonged exposure to this product could result in liver, kidney and blood disorder. Repeated skin contact may cause chronic dermatitis.

## 5: Fire Fighting Measures

<b>General Comment:</b>	The product will burn if involved in a fire but is not considered a significant fire risk.
<b>Extinguishing Media:</b>	Carbon dioxide, dry chemical or foam.
<b>Hazards from Combustion Products:</b>	Phosgene gas, hydrogen chloride gas, carbon monoxide and carbon dioxide.
<b>Precautions for Fire Fighters:</b>	Wear self-contained breathing apparatus if risk of exposure to product or combustion products.
<b>Hazchem Code:</b>	Keep containers cool with water spray. 2Z

## 6: Accidental Release Measures

<b>Spills and Disposal:</b>	Clear area of all unprotected personnel. Shut off all possible sources of ignition. Wear protective equipment to prevent inhalation of vapours. Contain using sand and prevent run off into drains and waterways. Collect and seal contaminated sand in properly labeled drums for disposal.
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## 7: Handling and Storage

<b>Handling:</b>	Never use product in confined spaces. Minimise direct contact with product.
<b>Storage:</b>	Ensure containers are clearly labeled. Keep containers securely sealed and protected against physical damage. Store in well ventilated area. Do not store in pits or basements where vapour may concentrate. Store in a cool place out of direct sunlight and away from foodstuff
<b>Hygiene Measures:</b>	Always wash hands before eating, drinking, or using the toilet. No smoking near product as passage of vapour, through lighted cigarette creates toxic hazard. Do not consume alcohol while using this product.  Ensure emergency safety shower is located close to work station and that emergency safety shower is hooked up to an alarm system so other workers are made aware and can assist in an emergency.

## 8: Exposure Controls – Personal Protection

<b>National Exposure Standards:</b>	No data for the product. For Tetrachloroethylene TWA of 340 mg/m <sup>3</sup> Oral LD <sub>50</sub> (rat): 8850 mg/kg
<b>Engineering Controls:</b>	Vapours are corrosive to surrounding metal equipment and plant. Use only in a well ventilated area and preferably outdoors.
<b>Personal Protection:</b>	
<b>Inhalation:</b>	Approved organic vapour respirator
<b>Eyes:</b>	Face shield of goggles
<b>Hands:</b>	Nitrile or PVA gloves
<b>Skin:</b>	PVC, Nitrile or rubber splash apron and rubber boots.

## 9: Physical and Chemical Properties

<b>Appearance:</b>	Water white liquid
<b>Odour:</b>	Strong, characteristic
<b>pH (Undiluted):</b>	7.0
<b>Vapour Pressure:</b>	
<b>Vapour Density:</b>	
<b>Boiling Point:</b>	120-160°C
<b>Melting Point:</b>	Not applicable
<b>Solubility:</b>	Not soluble in water
<b>Specific Gravity:</b>	1.1
<b>Flash Point:</b>	64°C open cup

## 10: Stability and Reactivity

**Chemical Stability:** The product is stable under normal conditions.  
**Conditions to Avoid:** None known.  
**Incompatible Materials:** None known.  
**Hazardous Reaction:** None known.

## 11: Toxicological Information

**Exposure Limits:** Tetrachloroethylene has TWA 340 mg/m<sup>3</sup>, Carcinogen Category 3 according to NOHSC.  
**Information:** Category 3 carcinogens are substances suspected of having carcinogenic potential on humans but the information available is not adequate for a satisfactory assessment.

**Ingestion (acute):** Harmful if swallowed. Ingestion may result in nausea, narcosis, headache and central nervous system depression.

**Eyes (acute):** Moderate eye irritant.

**Skin (acute):** Mild irritation.

**Inhalation (acute):** Narcotic. Inhalation of high concentrations may produce central nervous system depression, which may produce loss of co-ordination, impaired judgment, unconsciousness and possible death. Effects can become more extreme by consumption of alcohol.

**Chronic Effects:** Repeated or prolonged skin contact may cause chronic dermatitis. Evidence from tests on animals indicate prolonged exposure to this product may result in liver, kidney and blood disorders.

## 12: Ecological Information

**Environmental Protection:** This substance may be hazardous to the environment.

## 13: Disposal Considerations

**Disposal Methods:** Tanks containing the product must not be discharged into the environment. Disposal of this product and solutions of the product should at all times comply with requirements of environmental protection and waste disposal legislation as well as requirements by local authorities. Dispose of via licensed waste disposal carriers.

## 14: Transport Information

**UN Number:** 1897  
**UN Proper Shipping Name:** Tetrachloroethylene  
**Class:** 6.1  
**Subsidiary Risk:** None allocated  
**Packing Group:** III  
**Special Precautions For users:** Ensure containers are clearly labeled, securely sealed and protected from damage.  
**Hazchem Code:** 2Z

## 15: Regulatory Information

**Packaging & Labelling:** This product contains a Scheduled Poison (S6) and must be stored, maintained and used in accordance with the relevant State Poisons Act. Defined as a "Dangerous Good" by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 16: Other Information

**Prepared By:** Jason Domenech

**Date of Previous Issue:** January 2006

**Change Made:** Updated DG information

**References:** Australian Dangerous Goods Code  
List of Designated Hazardous Substances  
National Code of Practice for the Preparation of Material Safety Data Sheets  
Standard for the Union Scheduling of Drugs and Poisons

**Contact Person/Point:** Australia:  
24 HOUR EMERGENCY CONTACT  
Poisons Information Centre (Australia) 13 1126

**LEGAL DISCLAIMER:**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

**END OF SAFETY DATA SHEET**