

## SECTION 1 IDENTIFICATION OF THE MATERIAL

**Product Name:** CHLOROFORM

**Other Names :** Trichloromethane, Formyl trichloride

**Recommended use:** Used in dental procedures.

### Manufacturer / Supplier

**Dentalife Pty. Ltd.**

Factory 9 / 505 Maroondah Highway  
RINGWOOD VIC 3134 Australia

### Telephone

(03) 9879 1226

International : +61 3 9879 1226

Fax Number

(03) 9879 1376

International : +61 3 9879 1376

### Email

[dentali@bigpond.net.au](mailto:dentali@bigpond.net.au)

## SECTION 2 HAZARDS IDENTIFICATION

### **Hazard**

**Classification** HAZARDOUS SUBSTANCE  
DANGEROUS GOOD

**Risk Phase(s)** R22 : Harmful if swallowed  
R38 : Irritating to skin  
R40(3) : Possible risk of irreversible effects  
R48/20/21 : Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
S36/37 : Wear suitable protective clothing and gloves

**Environmental Hazards** Hazard

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

<u>Composition</u>	<u>CAS No.</u>	<u>Proportion</u>
Chloroform	67-66-3	100%

## SECTION 4 FIRST AID MEASURES

**Ingestion :** Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Do not induce vomiting. Seek immediate medical assistance.

**Eye :** Immediately flush eyes with plenty of water for at least 15 minutes. Eye lids to be held open. Seek medical attention.

#### **SECTION 4 FIRST AID MEASURES** *continued*

- Skin :** Flush skin with plenty of soap and water immediately. Remove contaminated clothing and wash before reuse. Seek medical advice if effects persist.
- Inhaled :** Remove victim to fresh air. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek urgent medical assistance.
- First Aid Facilities :** Ensure eye wash and shower facilities are available in the working area.
- Advise to Doctor :** Consult Poisons Information Centre.  
Do not administer catecholamines due to the cardiac effect caused by the product.

#### **SECTION 5 FIRE FIGHTING MEASURES**

**Suitable extinguishing media:** Dry chemical, CO<sub>2</sub> and water spray.

**Unusual fire and explosion hazards:** Will burn on prolonged exposure to flame or high temperature. Fire or heat will produce irritating, poisonous and/or corrosive gases. Runoff may pollute waterways.

**Special protective equipment:** Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection.

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Where mists or vapours exceed the exposure standards the use of the following is recommended : Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.

**Environmental precautions:** Prevent from entering into drains, sewage waste systems, native or natural environments, ie river systems. Dispose of waste in accordance with all applicable national regulations.

**Methods for cleaning up:** Clean up spills immediately. Cover spills with plastic sheet to minimize spreading. Absorb spilled material with earth, sand or other non-combustible material. Place spillage in appropriate container for waste disposal. Dispose of this solid waste to conform with regulations.

**Handling:** Ensure cap for container is replaced and tightly closed immediately after use.

## **SECTION 7 HANDLING AND STORAGE**

**Storage:** Store in a cool, dry, well ventilated area and out of direct sunlight. Store away from strong bases, oxidizing agents, metals, ketone solvents and aluminium. Keep containers securely sealed. Dangerous Goods of Class 6 (Toxic and Infectious Substances) are compatible in a placard load with any of the following :

Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids; and are incompatible with food packaging in any quantity.

**Other Information:** Recommended materials for packaging : Tinned plate or glass. Do not store in plastic containers. Prohibited packaging materials : Light metals and alloys in the presence of moisture.

## **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Respiratory protection:** Under normal conditions does not emit significant vapours.

**Hand protection:** Use occupational protective gloves when handling solution. Vinyl, latex or nitrile rubber gloves are recommended.

**Eye protection:** Safety glasses which comply with Australian Standard AS1337 and used in accordance with AS1336, are recommended.

**Body protection:** Clean clothing or protective clothing should be worn.

**General safety and hygiene measures:** Always wash hands after handling solution and before handling food or using the toilet.

**Engineering Controls :** Ensure workplace is well ventilated.

## **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance .....: Heavy, colourless, volatile, highly refractive liquid.

Odour.....: Characteristic odour.

Odour Threshold .....: 200 – 300 ppm

Boiling Point (°C) .....: 61.2

Melting Point (°C) .....: -63.5

Vapour Pressure .....: 213 hPa (20°C)

Specific Gravity .....: 1.485 g/mL

Autoignition Temp. ....: 982°C

pH of Solution .....: 5.5 to 7.0

Solubility in Water (g/L) ...: 8 g/L

**Other Properties .....:** Avoid contact with strong bases, strong oxidising agents, alkaline metals, ketone solvents with strong base and finely divided metals.

## SECTION 10 STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Exposure to light, excessive heat and mixing with other chemicals.

**Materials to avoid:** Avoid contact with alkalis and oxidizing agents.

**Hazardous decomposition products:** When heated to decomposition, material emits toxic fumes of CO<sub>x</sub>, NO<sub>x</sub>, hydrogen chloride, ammonia and small amounts of p-chloroaniline

**Hazardous reactivity (polymerization):** No data available.

## SECTION 11 TOXICOLOGICAL INFORMATION

LD<sub>50</sub> oral, rat = 2.000 mg/Kg

**Ingestion :** Orally chlorhexidine digluconate is poorly absorbed from the gastrointestinal tract, may cause discomfort or irritation.

**Eye :** Possible irritant effect.

**Skin :** Significant potential for irritation.

**Inhaled :** No data.

**Chronic :** Chronic exposure may cause contact dermatitis. Topical applications of solutions in some patients have caused urticaria, dyspnea and anaphylactic shock.

## SECTION 12 ECOLOGICAL INFORMATION

**Ecological Information** No data available.

## SECTION 13 DISPOSAL CONSIDERATIONS

**Disposal Considerations:** Dispose of according to relevant local, state and federal government regulations. Do not flush into sewer.

## SECTION 14 TRANSPORT INFORMATION

U.N. Number :	NA	Dangerous Goods Class :	NA
Hazchem Code :	NA	Subsidiary Risk :	NA
CAS Number :	18472-51-0	Pack. Grp. :	NA

## SECTION 15 REGULATORY INFORMATION

**Poisons Schedule :** NA



<b>SECTION 16 OTHER INFORMATION</b>
-------------------------------------

Product is considered safe if used as intended.

Product is intended for Professional Dental Use only.

End of document