

MATERIAL SAFETY DATA SHEET**Product name: SEPTADINE - Chlorhexidine Gluconate 0.5% in Alcohol 70%****Version: 1.0****Revision date: 16/12/2017****MATERIAL SAFETY DATA SHEET****1. Identification of the Product and Company**

Product Name:	Septadine
Product Code:	1Liter P13140006 500 ml P13140005
Other Names:	None allocated
Use:	Antiseptic disinfectant solution
Company Name:	Ben Shimon Floris Ltd
Emergency telephone number:	97249027100 / 972549001116 / 972549001146
Contact e-mail:	raphy@floris.co.il / irena@floris.co.il
Other information:	All reasonable care has been taken to ensure information and advice contained in this data sheet is accurate at time of printing. However, Ben Shimon Floris Ltd accepts no liability for any loss or damages suffered as a consequence of reliance on the information contained herein.

2. Hazards Identification

Hazard Classification:	HAZARDOUS SUBSTANCE, DANGEROUS GOODS.
Risk phrase(s)	R11 –Highly Flammable
Safety phrase(s)	S2 –Keep out of reach of children S7 – Keep container tightly close S16 – Keep away from sources of ignition S 25 – Avoid contact with the eyes
Additional Hazard Information:	
Short term usage:	May cause mild skin irritation (based on animal data)
Long term usage:	Chronic ingestion of ethanol has been associated with an increased incidence of cancer, liver cirrhosis and if ingested during pregnancy, congenital malformations.

EU Hazard Symbols:

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Chemical Entity	CAS No	Proportion
Chlorhexidine Gluconate	18472-51-0	< 10 % w/v
Ethanol	64-17-5	< 60% w/v.
Glycerin	56-81-5	< 10% w/v
Propylene Glycol	57-55-6	< 10% w/v
Colour agent	-	<1 % w/v
Purified Water	7732-18-5	> 25 %

4. First Aid Measures**Inhalation:**

Move patient to fresh air. If occurs respiratory irritation, dizziness, nausea or headache, seek immediate medical attention.

Ingestion:

If swallowed, give a large amount of water to drink. Do NOT induce vomiting. Contact a Doctor.

Skin:

This product is intended to be a skin antiseptic solution. Wash off skin with water. If spilt on clothes, launder before use.

Eye:

Hold eyelids open and flush with gently running water for at least 15 minutes. If stinging or redness continues, seek medical advice.

Advice to Doctor:

Care should be taken during emesis to prevent pulmonary aspiration of the return flow. Toxic effects due to the ingestion of chlorhexidine should be treated by gastric lavage.

5. Fire Fighting Measures

Highly flammable liquid. Burns with a colorless flame. Eliminate possible sources of ignition. Ventilate area well. Contain using sand and earth and use an inert absorbent where appropriate. Wash area down with excess water.

Extinguishing Media

Water jets/fog or mist, foam, dry chemical agent.

Hazards from Combustion product

Formation of toxic gases is possible during heating or fire. May include oxides of carbon, nitrogen and products of chlorine.

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Not considered to be a fire risk. Fire-fighters should wear self-contained breathing apparatus as exposure to vapor or combustion products is likely.

Hazchem Code 2[Y]E**6. Accidental Release Measure**

Spillage will be slipper. For large spills, cover with inert absorbent material (sand, vermiculite) where appropriate. Collect and seal in properly labelled containers for disposal. Wash area well with water. Eliminate possible sources of ignition. Ventilate area well.

7. Handling and Storage**General Handling**

Safe handling procedures should be employed at all times. Alcoholic solutions are flammable.

- Avoid pooling on surfaces
- Do not use near a naked flame or other ignition sources

Storage Conditions

Should not be stored or transported with flammable gases, explosives, spontaneously combustible substances, Store away from sources of heat and ignition. Store in well ventilated areas and keep containers closed when not in use to avoid evaporations. The product should not be stored at above 25°C Protect from light.

8. Exposure Control; Personal Protection**Exposure Limits:**

There are no known Threshold Limits Values (TLV) for Chlorhexidine 0.5% in Alcohol 70%, but the following limits for 100% ethanol should serve as guide: Ethanol TLV 1000ppm

1880 mg/m³ TWA time weighted average airborne concentration over an eight-hour day, for a five-day working week over an entire working life.

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Engineering Controls: No respiratory protection is necessary under normal circumstances. General room ventilation is adequate unless the process generates dust, mist or fumes. Use with adequate ventilation at all times.

Personal protection: Wear impervious gloves. Wear safety glasses to avoid contact with eyes. Avoid contact with ears, mucous membranes and broken skin. Wear protective clothing when working with large quantities.

9. Physical and Chemical Properties

Appearance / Odor: Blue solution with characteristic odor of alcohol.
PH: 6.0-8.5
Vapour Pressure: 7.91 kPa
Vapour Density: 1.59 g/ml (based on component Ethanol)
Flash Point: 12.8 (based on component Ethanol)
Boiling Point: 8.5 °C ((based on component Ethanol)
Freezing / Melting Point: No data available
Solubility: Miscible in water @ 20°C
Specific Gravity or Density: 0.885-0.915 g/ml @ 20°C

10. Chemical Stability and Reactivity Information**Conditions Contributing to Instability:**

This product is stable under the specified conditions of storage.

Condition to avoid:

Keep away from heat, spark, flames and all other sources of ignition.

Incompatible Materials:

Strong oxidizing agents and strong inorganic acids

Hazardous Decomposition:

Burning can produce carbon monoxide and/or carbon dioxide

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There are no data for this formulation. The information included in this section describes the potential hazards of the individual ingredients.

Ethanol

Rat Oral LD 50 7060 mg/kg

Rat Inhalation LD 50 20000 ppm/10H

Chlorhexidine Gluconate

Rat Oral LD50 2000 mg/kg

Rat Para-periosteal LD50 24.2 mg/kg

Inhalation:

No hazard under normal conditions of use

Ingestion:

Irritating to the gastrointestinal tract causing vomiting and diarrhea.

Skin:

Skin sensitivity to chlorhexidine has occasionally been reported. Toxic if allowed entering the ear canal.

Eye:

Irritating to the eye. May cause stinging and redness.

12. Ecological Information

The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.

Mobility:

No data available

Persistence and Degradability:

No data available. Degree of elimination (ethanol 100%) 94%

Ecotoxicity:

No data available.

For ethanol 100% - Toxicity to fish > 1000mg/l /48h

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Wash empty containers with water.
Waste material may be incinerated under controlled conditions were permitted. Refer to local Waste Management Authority Regulations for other approved methods. Empty containers should be decontaminated by rinsing with water prior to disposal.

14. Transport Information

UN Number: 1170
UN Proper Shipping Name: Ethanol solution
DG Class & Subsidiary Risk: Classified as Flammable Liquid Class 3, PG II.
Packing Group II
Hazchem Code: 2[Y]E

15. Regulatory Information

EU Symbol: F
EU Indication of danger: Flammable
EU Risk Phrases: R11 Highly flammable
EU Safety Phrases:
S 2 –Keep out of reach of children
S 7 – Keep container tightly close
S 16 – Keep away from sources of ignition
S 25 – Avoid contact with the eyes

16. Other Information**References:**

Publicly available toxicity information
Ethanol MSDS
Chlorhexidine Gluconate solution MSDS