

## 1. Identification of Substance & Company

### Product Details

<b>Product name</b>	Mediwipes
<b>Product codes</b>	SUL001
<b>HSNO approval</b>	HSR002528
<b>Approval description</b>	Cleaning Product (Flammable) Group Standard 2006
<b>Hazchem code</b>	1Z
<b>Uses</b>	Medicated wipes

### Company Details

<b>Company</b>	<b>Sulco Limited</b>	
<b>Address</b>	1 Orb Avenue, Wiri, Manukau City New Zealand	P.O. 98845 SAMC Manukau 2240 New Zealand
<b>Telephone</b>	+64 9 250 0086	
<b>Fax</b>	+64 9 250 1650	
<b>Freephone</b>	0800 800 488	
<b>Website</b>	www.sulco.co.nz	

**Emergency Telephone Number: 0800-764 766**

## 2. Hazard Identification

### Hazard Classifications

This product contains a flammable liquid absorbed onto an inert material (wipe). The liquid has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002528, Cleaning Product (Flammable) Group Standard 2006), and is classified as follows:

Classes	Hazard Statement
3.1B	H225 - Highly flammable liquid and vapour.
6.4A	H320 - Causes eye irritation.
6.5B	H317 - May cause an allergic skin reaction.
9.1C	H412 - Harmful to aquatic life with long lasting effects.

### SYMBOLS

# DANGER



### Other Classifications

Note: This mixture is classed for transport as SOLID CONTAINING FLAMMABLE LIQUID NOS, (contains ethanol). It may be transported under DANGEROUS GOODS LIMITED QUANTITIES. (Container size <1kg)

### Precautionary Statements

Keep out of reach of children. Read label before use.  
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 Keep container tightly closed. Store in a well-ventilated place. Keep cool.  
 Ground/bond container and receiving equipment.\*  
 Use explosion-proof electrical/ventilating/lighting. Use only non-sparking tools.\*  
 Take precautionary measures against static discharge.\*  
 Wear protective eye protection.  
 Avoid breathing vapours. Use only in a well-ventilated area.  
 Wash hands thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Avoid release to the environment.

\* These precautionary statements apply when a flammable zone is required to be established.  
 See Section 15 – Regulatory Information  
 Further precautionary statement can be found in section 4 – First Aid

### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Class for ingredient(s)	Conc (%)
ethanol	64-17-5	3.1B, 6.4A	70%
chlorhexidine digluconate	18472-51-0	6.1E (oral), 6.3A, 6.4A, 9.1A	0.5%
cetrimonium bromide	57-09-0	6.1D (oral), 6.5B, 8.2C, 8.3A, 9.1A, 9.3B	0.16%
water	7732-18-5	non hazardous	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

### 4. First Aid

#### General Information

You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

If medical advice is needed, have this SDS, product container or label at hand. If exposed or concerned: Get medical advice/attention.

**Recommended first aid facilities** Ready access to running water and accessible eyewash is recommended.

#### Exposure

<b>Swallowed</b>	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.
<b>Inhaled</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a doctor if you feel unwell.

#### Advice to Doctor

Treat symptomatically

### 5. Firefighting Measures

<b>Fire and explosion hazards</b>	Vapours may form an explosive mixture in air which can be ignited by many sources such as pilot lights, open flames, electrical motors, switches and static electricity. Vapour is heavier than air and may flow along surfaces to distant ignition source and flashback.
<b>Suitable extinguishing substances</b>	Water fog or spray, dry chemical, carbon dioxide, or foam.
<b>Unsuitable extinguishing substances</b>	Unknown.
<b>Products of combustion</b>	May form carbon dioxide, carbon monoxide, and various hydrocarbons. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
<b>Protective equipment</b>	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
<b>Hazchem code</b>	1Z

## 6. Accidental Release Measures

<b>Containment</b>	If greater than 1000L is stored, secondary containment is required. Emergency plans to manage any potential spills must be in place. Prevent spillage from spreading or entering soil, waterways or drains.
<b>Emergency procedures</b>	The packaging and nature of the product generally will prevent major spills. If wipes do spill: Stop spill if safe/necessary. Shut off all possible sources of ignition. Isolate area (ensure no persons inside spill area) Collect wipes – see below Transfer to container for disposal Dispose of according to guidelines below.
<b>Clean-up method</b>	Small spills do not require any special clean up method. Larger spills should be collected. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
<b>Disposal</b>	Collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
<b>Precautions</b>	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapour. Work up wind or increase ventilation.

## 7. Storage & Handling

<b>Storage</b>	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10. Location test certificates must be available if storing greater than 250 L in closed containers of ≤ 5 L capacity), or greater than 50L (in use) of flammables with 3.1B classification. Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and name of contents.
<b>Handling</b>	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 8. Exposure Controls / Personal Protective Equipment

### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 10mg/m<sup>3</sup> for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Stds (2016)	Ingredient	WES-TWA	WES-STEL
	ethanol	1000ppm, 1880 mg/m <sup>3</sup> *	no data

\* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

### Personal Protective Equipment

**Eyes** If contact with eyes is likely, it is recommend that goggles, safety glasses be worn. Avoid wearing contact lenses.



**Skin** Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Nitrile gloves or neoprene gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash hands after handling.

**Respiratory** A respirator with an organic vapour cartridge when airborne concentrations approach the WES (section 8) should be used. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Supplied Air respirator should be considered in the event of excessive exposure (e.g. higher than WES).

**WES Additional Information**

No additional information

**9. Physical & Chemical Properties**

<b>Appearance</b>	clear, slightly yellow liquid absorbed onto wipes
<b>Odour</b>	characteristic odour
<b>pH</b>	5.5
<b>Vapour pressure</b>	vapour pressure of ethanol: 5.3kPa at 20°C
<b>Viscosity</b>	no data
<b>Boiling point</b>	ethanol: 78°C
<b>Volatile materials</b>	liquid: 100%
<b>Freezing / melting point</b>	no data
<b>Solubility</b>	liquid soluble in water
<b>Specific gravity/density</b>	no data
<b>Flash point</b>	ethanol: 13°C
<b>Danger of explosion</b>	not explosive
<b>Auto-ignition temperature</b>	no data
<b>LEL/UEL</b>	no data
<b>Corrosiveness</b>	non corrosive

**10. Stability & Reactivity**

<b>Stability</b>	Stable
<b>Conditions to be avoided</b>	Flammable substance. Keep away from sources of ignition at all times. Containers should be kept closed in order to avoid contamination. Avoid heat, flames, sparks, and other sources of ignition.
<b>Incompatible groups</b>	Avoid contact with strong oxidizing agents, concentrated acids such as nitric and sulphuric acid, aldehydes, halogens.
<b>Hazardous decomposition products</b>	Thermal decomposition products may include oxides of carbon.
<b>Hazardous reactions</b>	None known

**11. Toxicological Information**
**Summary**

If swallowed this product may cause vomiting, diarrhoea, drowsiness and cramps.

If inhaled the vapours may cause mild irritation to nose and throat.

Direct contact with the eye may lead to slight to moderate irritation (stinging). If left in the eye for prolonged periods it may cause corneal injury.

Prolonged contact with the skin may result in skin drying. Some individual may experience sensitisation (allergic skin reaction).

**Supporting Data**

<b>Acute</b>	<b>Oral</b>	Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is >5000mg/kg. Data considered includes: ethanol >5000mg/kg, chlorhexidine digluconate 1260 mg/kg (mouse), cetrimonium bromide 410mg/kg (rat).
	<b>Dermal</b>	No acute dermal toxic effect are expected when using this product.
<b>Chronic</b>	<b>Inhaled</b>	No evidence of acute inhalation toxicity.
	<b>Eye</b>	The mixture is considered to be an eye irritant. Ethanol is an eye irritant. Cetrimonium bromide and chlorhexidine digluconate are also considered eye irritants are greater concentration.
	<b>Skin</b>	The mixture is not considered to be a skin irritant.
	<b>Sensitisation</b>	The mixture is considered to be a contact sensitizer, because cetrimonium bromide present in greater than 0.1% is known to be a contact sensitizer.
	<b>Mutagenicity</b>	No ingredient present at concentrations > 0.1% is considered a mutagen.
	<b>Carcinogenicity</b>	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	<b>Reproductive / Developmental</b>	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
	<b>Systemic</b>	No ingredient present at concentrations > 1% is considered a target organ toxicant. EPA have not classed ethanol as a systemic toxicant.
	<b>Aggravation of existing conditions</b>	None known.

## 12. Ecological Data

### Summary

The liquid contained in the wipes is considered to be harmful in the aquatic environment.

### Supporting Data

<b>Aquatic</b>	Using EC <sub>50</sub> 's for ingredients, the calculated EC <sub>50</sub> for the mixture is between 10 and 100 mg/L and none of the components are considered bioaccumulative or persistent in the aquatic environment. Data considered includes: chlorhexidine digluconate 0.6mg/L (96hr, Lepomis macrochirus Bluegill), 0.063 mg/l (48hr, Daphnia magna), cetrimonium bromide 0.16mg/L (96hr, Echinogammarus tibaldii Amphipod), 0.03mg/L (96hr, blue-green algae).
<b>Bioaccumulation</b>	No data
<b>Degradability</b>	Chlorhexidine digluconate and cetrimonium bromide are not rapidly biodegradable.
<b>Soil</b>	The mixture is not considered toxic to the soil environment.
<b>Terrestrial vertebrate</b>	This product is considered harmful to terrestrial vertebrates. No LC <sub>50</sub> (diet) data for ingredients are available and the classification is based on the LD <sub>50</sub> (oral) – see section 11 – oral toxicity.
<b>Terrestrial invertebrate</b>	The mixture is not considered harmful to terrestrial invertebrates.
<b>Biocidal</b>	Not applicable

## 13. Disposal Considerations

<b>Restrictions</b>	There are no product-specific restrictions however, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	Disposal of this product must comply with the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
<b>Contaminated packaging</b>	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

## 14. Transport Information

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a hazardous substance for transport. It may be transported as DANGEROUS GOODS LIMITED QUANTITIES.

<b>UN number</b>	3175	<b>Proper shipping name</b>	SOLID CONTAINING FLAMMABLE LIQUID NOS, (contains ethanol)
<b>Class(es)</b>	4.1	<b>Packing group</b>	II
<b>Subsidiary Risk</b>	None	<b>Limited Quantity</b>	1kg
<b>Precautions</b>	Flammable	<b>Hazchem code</b>	1Z

NOTE: It is class 3.1B under HSNO, see section 2 and section 15.

## 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002528, Cleaning Product (Flammable) Group Standard 2006.

### Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS	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	Detailed Emergency Management Plan required if > 1000L is stored.
Approved handler	Required for quantities 250 L (container with > 5 L capacity) or 500 L (container with ≤ 5 L capacity).
Tracking	Not required.
Secondary containment	Required if > 1000L is stored.
Signage	Required if > 250L is stored in any one location.
Location test certificate	Required if storing >100 L (closed containers with > 5 L capacity), >250 L (closed containers with ≤ 5 L capacity) or > 50 L (in use) is stored in any one location. This applies to all flammables with 3.1B classification.
Flammable zone	Must be established if storing >100 L (closed containers), >25 L (decanting), >5 L (open occasionally), >1 L (in use), is stored in any one location.
Fire extinguisher	Required if > 250L present.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

## 16. Other Information

### Abbreviations

<b>Approval Code</b>	Approval Cleaning Products (Flammable) Group Standard 2006, HSR002528, Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>Ceiling</b>	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
<b>Controls Matrix</b>	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>EPA</b>	Environmental Protection Authority (New Zealand)
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>MSDS (SDS)</b>	Material Safety Data Sheet (or Safety Data Sheet)
<b>PES</b>	Prescribed Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO (including group standards).
<b>STEL</b>	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 is not exceeded
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>UN Number</b>	United Nations Number
<b>WES</b>	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.

### References

<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
<b>EPA Transfer Gazettes</b>	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
<b>WES 2016</b>	The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .
<b>WES 2002</b>	Workplace Exposure Standards published by the Occupational Safety and Health Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES referred to under the Group Standard (HSNO approval) and may constitute a PES.
<b>Other References:</b>	Suppliers SDS

### Review

<b>Date</b>	Reason for review
<b>September 2012</b>	Not applicable - New SDS
<b>July 2013</b>	Update transport section (LIMITED QUANTITIES)
<b>August 2016</b>	Update HSE to HSAW and regulations.

### Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. **The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological).** Full formulation details were not available. This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose.

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