



MATERIAL SAFETY DATA SHEET

This is a 16pt MSDS in terms of ISO 9001 QMS

Revision Date: June 2013

SECTION 1 IDENTIFICATION

Manufacturers Name & Address: TM Chemicals (Pty) Ltd; Unit 6A Kimbult industrial park,
Lazer park, Honey dew, Johannesburg, South Africa.

Principle Distributor: BAWOMA CHEMICALS (Pty) Ltd;

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Product Name: Quick drying Antimicrobial Hand Rub
with Aloe Vera oil skin Conditioner.

Product Type: Skin disinfectant for the medical industry.

Registration Number: South Africa: South African Bureau of Standards # 1221
type I

Chemical Name: 40% alcohol + 0.2% active **Microtol**

Hazardous Chemicals: **None**

Routes of Entry: Inhalation X Skin/Eye X Ingestion X

Note: This product does not contain sulphonic acid, CDE or any other type ethanolamine in the formulation. NONE of the ingredients in this product are nitrosamine forming.



SECTION 2 Hazardous Ingredients/Identity Information

Microtol plus hand rub contains the following hazardous ingredients at concentrations greater than 1.0%

CHEMICAL COMPONENTS: None; as all the products are used at a final dilution of less than 0.3% active.

Microtol hand rub product contains the following hazardous ingredients listed as carcinogens or potential carcinogens by the National Toxicology Program (NTP), International Agency on Cancer (IARC) or OSHA, and present at a concentration greater than 0.1%:

CHEMICAL COMPONENTS: None

SECTION 3 Physical/Chemical Characteristics

Boiling Point:	100°C	Evaporation Rate:	N/A
Specific Gravity:	0.9 -1.1	Solubility (H₂O):	Complete
Appearance & Colour:	Clear gel		
Melting Point:	n/a	pH:	5.0- 8.0
Molecular Weight:	this is a mixture of various chemicals		
Freezing Point:	0°C/32°F (Same as Water)		
Percent Volatile by Vol.:	Not detectable at normal end usage dilution. The volatility of this product is well below the OSHACT threshold limit of 0.1ppm over an 8 hour period.		

SECTION 4 Fire and Explosion Hazard Data

Flash Point (Test Method): None (Tag Closed Cup ASTM D 56)
NB this product although contains alcohol, it is **non-flammable**.

Special Fire Fighting Procedures: Self-Contained Breathing Apparatus (SCBA) and protective clothing should be worn when fighting chemical fires.

Unusual Fire and Explosion Hazards: None known

Extinguishing Media: Carbon dioxide, foam, dry chemical.

SECTION 5 Reactivity Data

Stability: **Stable**

Hazardous Polymerisation: Will Not Occur at temperature between -4°C and +40°C

Hazardous Decomposition Products: Thermal decomposition may produce toxic oxides of carbon at temperatures greater than 60 deg C.

Conditions and Materials to Avoid: Enzyme cleaners, Ammonia, Amine/nitrogen containing products.



SECTION 6 Health Hazard Data

Route of Entry: inhalation, skin and eyes

Signs and Symptoms Associated with Overexposure (one-time or repeated):

- a) **Ingestion for solution containing >5% m/v of Microtol hand rub products or higher:** May cause irritation and possibly a stinging feeling in the mouth, throat, stomach and oesophagus. May produce discomfort in the mouth, throat, chest and abdomen, nausea, vomiting, diarrhoea, thirst and weakness. No problems with solutions of less than 0.5% active **Microtol**
- b) **Eyes: Avoid contact with contact lens in and out of the eyes, Avoid eye contact with solutions greater than 0.5% active Microtol.** Solution contact of less than 0.5% active **Microtol** may cause no more damage than getting any concentrated soap in ones eye. If irritation persists seek medical attention.
- c) **Skin:** Not skin irritant. Avoid contact on existing dermatitis.
- d) **Inhalation:** none provided label instructions are followed.

Emergency and First Aid Procedure:

Ingestion:

Oral: DO NOT INDUCE VOMITING. Drink large quantities of water.

NOTE TO PHYSICIAN: Probable mucosal damage from oral exposure of large quantity of ingestion of undiluted Microtol plus alcohol hand rub may contraindicate the use of gastric pump.

Eyes: Immediately flush eyes with water and continue washing for at least 2 minutes. If eye irritation persists seek medical attention.

Skin: wash with plenty of water.

Inhalation: normally none required, however if needed the person is to be removed to fresh air.

Medical Conditions Generally Aggravated by Overexposure: See above.

SECTION 7 Precautions For Safe Handling and Use of large quantities of the undiluted Microtol products.

Steps to be taken if Material is Released or Spilled: Wear suitable protective equipment, including nitrile (not PVC) gloves.

For small spills of 5litres or less, gather up a bucket of water and a sponge or mop. Mop or sponge the water into the spill until thoroughly combined. Wipe or mop up resulting spill area a final wipe or mop with fresh water. Re-rinse all equipment, and allow spill area to dry.

For large spills of more than 500litres, remove people from immediate spill area as it will be very slippery, and isolate until cleaned up. Contain spill with absorbent material, i.e. towels. With a sponge type mop pick up as much of the spillage as possible. Discard the waste containers into a bin according to your facility's waste disposal guidelines. OR wash the area down with plenty of water to drain or sewer using a hose pipe. Then Mop the spill area with fresh water. Rinse out all equipment (bucket, mop, and towel) with large amount of water. If paper towels were used, dispose of in a tightly closed trash bag. Let spill area dry before allowing people traffic to ensure no one can slip on the floor.



☐ **Waste Disposal Method:** Disposal of **Microtol** products may be accomplished by pouring solution down the drain in accordance with state and local regulations. Flush with a large quantity of water. Rinse thoroughly with water and dispose of the container in the trash bin.

Precautions to be taken in Handling and Storing: **Microtol** products should be stored in its original sealed container at room temperature (15°C to 30°C) away from direct sunlight. Do not mix with any other substance without the manufacturer's approval.

Precautionary labelling: Avoid eye contact with **contact lens** and the undiluted product. It will sting the eyes, like any type of soap. If irritation persists seek medical attention.

SECTION 8 Transportation Data & Additional Information

Proper Shipping Name:	Hand disinfectant	DOT (ground):	Not regulated
IATA (air):	Not regulated	IMO (ocean):	Not regulated
Hazard Class:	None	Labels:	None needed
ID#:	None	Special Instructions:	None
Reportable Quantity:	None		

SECTION 9 Control Measures in a production environment

Eye Protection: Safety glasses for handling of solutions greater than 3% active **Microtol**. Eyewash should be available for emergency situations.

Ventilation: none specially required, however ensure that there is plenty of fresh air coming into the production area.

Skin Protection: Nitrile gloves should be worn when working with the alcohol hand rub solution of concentrations of 5% and higher active **Microtol**. Use normal latex gloves for solutions of less than 3%. Rubber boots may be needed to contain large spills.

☐ **Respiratory Protection:** None required

SECTION 10 Special Requirements

None

SECTION 11 Ecological Considerations

Biodegradability: All the ingredients of this product are readily biodegradable by greater than 90%. Over 28 days. Resulting broken down elements of the product is Carbon dioxide and water.

SECTION 12 Disposal considerations

Rinse away with plenty of water.

SECTION 13 Toxicological Information.

Acute oral toxicity:	Toxic at >5% m/v Microtol , non toxic at less than 0.5% active Microtol .
Acute toxicity dermal:	none
Acute toxicity inhalation:	none



Eye irritation:	Avoid contact with contact lens and eye contact with solutions of greater than 0.5% active Microtol . Stings the eye, but will cause no long lasting impairment. Do not use on contact lens. If irritation persists seek medical attention.
Skin Irritation:	Solutions of greater than 1,0% active Microtol will discolour skin a brownish colour, which will disappear after five washing over two days. No discolouration or irritation will be experienced with solutions of less than 0.3% active Microtol , for normal skin.
Skin sensitisation:	none avoid use on dermatitis skin or open wounds (stings).

SECTION 14 transportation.

No special requirements. (see section 8 & 7 above)

SECTION 15 regulatory information.

SABS approved. SABS 1221 type I.

SECTION 16 other information

Contains alcohol, carbopol, skin conditioners, water and biocide

Issued By: A.P.Martin, the Formulator Contact 0027 (0) 825692909 for any further information.

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