


1. Identification of the substance/mixture and of the company/undertaking	
<b>1.1 Product identifiers</b>	
Product Name	Dermarub
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Product Description	Alcohol-Based Anti-Bacterial Hand Sanitiser Liquid
<b>1.3 Details of the supplier of the safety data sheet</b>	
Company	Hychem (Pty) Ltd 562 15th Road Randjesfontein Midrand PO Box 5742; Rivonia; 2128
Telephone Number	011 466 1885
Email Address	SalesJhb@Hychem.co.za
<b>1.4 Emergency telephone</b>	
Emergency Number	011 466 1885
<b>2. Hazards identification</b>	
<b>2.1 Classification of the substance or mixture</b>	
Classification according to Regulation (EC) No 1272/2008	Flam. Liq. 2: H225
<b>2.2 Label elements</b>	
Labelling according to Regulation (EC) No 1272/2008	
Pictogram(s)	
Signal Word	Danger
Hazard Statement(s)	H225: Highly flammable liquid and vapour.
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P280: Wear protective gloves/protective clothing/eye protection/face protection. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents/container to an approved waste disposal plant.
<b>2.3 Other hazards</b>	
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>3. Composition/information on ingredients</b>	
<b>3.1 Mixture</b>	
Component   CAS Number   Weight	Ethyl Alcohol   64-17-5   70% Didecyl dimethyl ammonium chloride   7173-51-5   <1%
<b>4. First aid measures</b>	
<b>4.1 Description of first-aid measures</b>	
General advice	Show this material safety data sheet to the doctor in attendance.
Inhalation	After inhalation: fresh air. Call in physician.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Consult a physician.
Eye Contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Ingestion	After swallowing: caution if victim vomits. Keep airways free. Call a physician immediately.
<b>4.2 Most important symptoms and effects, acute and delayed</b>	
	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
	No data available
<b>5. Firefighting measures</b>	
<b>5.1 Extinguishing media</b>	
Suitable extinguishing media	Dry sand, dry chemical or alcohol-resistant
Unsuitable extinguishing media	High volume water jet

<b>5.2 Special hazards arising from the substance or mixture</b>	
	<p>Fire Hazard            Keep away from heat and sources of ignition.            Flash back possible over considerable distance.            Beware of vapours accumulating to form explosive concentrations.            Vapours can accumulate in low areas.</p>
<b>5.3 Advice for firefighters</b>	
	<p>Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.</p>
<b>5.4 Further information</b>	
	<p>Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.</p>
<b>6. Accidental release measures</b>	
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
	<p>Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.</p>
<b>6.2 Environmental precautions</b>	
	<p>Do not let product enter drains. Risk of explosion.</p>
<b>6.3 Methods and materials for containment and cleaning up</b>	
	<p>Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.</p>
<b>6.4 Reference to other sections</b>	
	<p>For disposal see section 13.</p>
<b>7. Handling and storage</b>	
<b>7.1 Precautions for safe handling</b>	
Advice on safe handling	<p>Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.</p>
Advice on protection against fire and explosion	<p>Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.</p>
Hygiene measures	<p>Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.</p>
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
Storage Conditions	<p>Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.</p>
Storage Class	<p>3: Flammable liquids</p>
<b>8. Exposure controls/personal protection</b>	
<b>8.1 Control parameters</b>	
Ingredients with workplace control parameters	
Component   Permissible Limit   Basis	<p>Ethyl Alcohol   1,000 ppm   OSHA PEL   NIOSH REL   ACGIH TLV STEL</p>
	<p><b>Legend:</b>            ACGIH - American Conference of Governmental Industrial Hygienists            OSHA - Occupational Safety and Health Administration            NIOSH - National Institute for Occupational Safety and Health</p>

<b>8.2 Exposure controls</b>	
Personal Protective Equipment	<p><b>Eye/face protection</b> Not necessary under the recommended storage and handling conditions.</p> <p><b>Skin protection</b> Not necessary under the recommended storage and handling conditions.</p> <p><b>Body Protection</b> Not necessary under the recommended storage and handling conditions.</p> <p><b>Respiratory protection</b> Not necessary under the recommended storage and handling conditions.</p> <p><b>Control of environmental exposure</b> Do not let product enter drains. Risk of explosion.</p>
<b>9. Physical and chemical properties</b>	
<b>9.1 Information on basic physical and chemical properties</b>	
Physical State	Liquid
Colour	Blue
Odour	Characteristic
Melting point/ freezing point	No data available
Boiling point/ boiling range (°C)	No data available
Flammability	Flammable product
Lower and upper explosion limit/ flammability limit	No data available
Flash point (°C)	19°C
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	7
Viscosity	No data available
Solubility	Soluble in water
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Density	0.93 ± 0.02 kg/m <sup>3</sup>
Relative vapor density	No data available
Particle characteristics	No data available
<b>10. Stability and reactivity</b>	
<b>10.1 Reactivity</b>	
	No decomposition if stored and applied as directed. Vapor/air-mixtures are explosive at intense warming.
<b>10.2 Chemical stability</b>	
	Stable under recommended storage conditions. The product is chemically stable under standard ambient conditions (room temperature) .
<b>10.3 Possibility of hazardous reactions</b>	
	No data available
<b>10.4 Conditions to avoid</b>	
	Heat, flames and sparks.
<b>10.5 Incompatible materials</b>	
	Strong oxidizing agents
<b>10.6 Hazardous decomposition products</b>	
	In case of fire hazardous decomposition products may be produced such as: Carbon oxides In the event of fire: see section 5
<b>11. Toxicological information</b>	
<b>11.1 Information on toxicological effects</b>	
Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available

Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
<b>12. Ecological information</b>	
<b>12.1 Toxicity</b>	
	No data available
<b>12.2 Persistence and degradability</b>	
	No data available
<b>12.3 Bioaccumulative potential</b>	
	No data available
<b>12.4 Mobility in soil</b>	
	No data available
<b>12.5 Other adverse effects</b>	
	No data available
<b>13. Disposal considerations</b>	
<b>13.1 Waste treatment methods</b>	
	No data available
<b>14. Transport information</b>	
<b>14.1 UN number</b>	
	UN 1170
<b>14.2 UN proper shipping name</b>	
	Ethanol solution
<b>14.3 Transport hazard class(es)</b>	
ADR/RID	3
IMDG	3
IATA	3
<b>14.4 Packaging group</b>	
ADR/RID	III
IMDG	III
IATA	III
<b>14.5 Environmental hazards</b>	
ADR/RID	No data available
IMDG Marine pollutant	No data available
IATA	No data available
<b>14.6 Special precautions for user</b>	
	None
<b>15. Regulatory information</b>	
<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
This material safety data sheet complies with the requirements of Regulation (EC) No 1272/2008	
<b>16. Other information</b>	
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