

1. PRODUCT AND COMPANY IDENTIFICATION	
Product Name	Alcohol Rub 70%
Product Description / Use	70% Ethanol Rub
Manufacturer/ Supplier	Hychem (Pty) Ltd
Physical address	152 15th Road, Randjesfontein, Midrand
Postal Address	PO Box 5742; Rivonia; 2128
Contact Details	Emergency: 011-466 1885
2. HAZARDS IDENTIFICATION	
Classification of the product	Flammable Liquids : Category 2
Hazard Statements	H225 Highly Flammable Liquid and Vapour
Precautionary Statements	P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower]. P370+P378 In case of fire: Use suitable equipment to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P280 Wear protective gloves/protective clothing/eye protection/face protection. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.
Label Elements:	Danger
Pictograms	
3. COMPOSITION/ INFORMATION ON INGREDIENTS	
Component CAS Number Weight	Ethyl Alcohol 64-17-5 70%
Remainder of the formulation is made up from non-hazardous materials and retained as a trade secret.	
4. FIRST AID MEASURES	
Inhalation	Keep patient calm, remove to fresh air, seek medical attention.
Skin Contact	Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.
Eye Contact	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Ingestion	Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.
Note to physician	
5. FIRE-FIGHTING MEASURE	

Extinguishing media	Dry chemical. Carbon dioxide (CO ₂). Cool closed containers exposed to fire with water spray. Use water to dilute spills and to flush them away from sources of ignition.
Specific Hazards arising from substance or mixture	Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Carbon monoxide (CO) Carbon dioxide (CO ₂)
Advice for Fire Fighters	Protective equipment for firefighting: Wear a self-contained breathing apparatus.
Further Information	The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.
6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Use personal protective clothing. Information regarding personal protective measures see, section 8. Remove all sources of ignition. Take precautionary measures against static discharges.
Environmental precautions	Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
Methods for cleaning up recovery	Soak up with inert absorbent material. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Provide adequate ventilation.
Neutralisation and disposal of spillage	None
7. HANDLING AND STORAGE	
Observe the usual precautionary measures for handling and storing chemicals	
Handling	Do not get in eyes, on skin or on clothing. Do not breathe vapours or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. Keep away from heat and flame. Keep operating temperatures below ignition temperatures at all times. Use non-sparking tools.
Storage	Store in tightly closed containers in cool, dry, well ventilated area away from heat, sources of ignition and incompatibles. Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire or explosion. Store at ambient or lower temperature. Store out of direct sunlight. Keep containers tightly closed and upright when not in use. Protect against physical damage. Empty containers may contain toxic, flammable and explosive residue or vapours. Do not cut, grind, drill, or weld on or near containers unless precautions are taken against these hazards.
8. EXPOSURE CONTROLS/ PERSONAL PROTECTION	
Exposure Limits:	
Component Permissible Limit Basis	
Personal Protective Equipment	Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. Wash soiled clothing immediately.

Respiratory protection	Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapour/aerosol release.
Hand protection	Chemical resistant protective gloves.
Eye protection	Tightly fitting safety goggles (chemical goggles).
Body protection	Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit. (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
9. PHYSICAL AND CHEMICAL PROPERTIES	
Form	Liquid
Colour	Water White
Odour	Characteristic
PH Value	7
Boiling point/ boiling range (°c)	Not ascertained
Flash point (°c)	16°c
Solubility	Soluble in Water
Viscosity at 20°c	Not ascertained
Specific gravity at 20°c	Not ascertained
Free Alkalinity	NA
Total Acid	NA
10. STABILITY AND REACTIVITY	
Stability and possible hazardous reactions	No hazardous reactions if stored and handled as prescribed/indicated.
Conditions/ materials to avoid	Incompatible material: strong oxidizers. Anionic Compounds
Hazardous decomposition	No decomposition if used and stored in accordance with provisions for use.
11. TOXICOLOGICAL INFORMATION	
Acute Effects	Primary irritant effect: on the skin: May cause irritation to skin and mucous membranes. on the eye: Strong irritant with the danger of severe eye injury.
Chronic Effects	Sensitization: No sensitizing effects known
12. ECOLOGICAL INFORMATION	
Toxicity	Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
Persistence/ Biodegradability	Not ascertained
Mobility in Soil	Not ascertained
Additional Information	None
13. DISPOSABLE CONSIDERATIONS	
Disposal of chemical product	Do not discharge into drains/surface waters/groundwater. Dispose of in accordance with local authority regulations.
Disposal of contaminated packaging	Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorised use of used containers.
14. TRANSPORT REGULATIONS	
Proper Shipping Name	ETHANOL SOLUTION
UN Number	1170
Hazard Class	3
Packaging Group	II
Labels Required	Flammable
15. REGULATORY INFORMATION	
Labeling accordance with SANS 10234 latest revision.	OHS Act, 1993(Act No. 85 of 1993). Hazardous Substance Regulation of 1995

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16. ADDITIONAL INFORMATION (E.G. SPECIAL TRAINING OR RESTRICTIONS ON THE PRODUCTS USE)

The information contained herein is accurate to the best of our knowledge. Hychem (Pty) Ltd makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances