

**RAMAN & WEIL PVT LTD**  
**MATERIAL SAFETY DATA SHEET**



**ETHANOL, GLYCERINE & H<sub>2</sub>O<sub>2</sub>ANTIMICROBIAL ALCOHOL RUB (BACCIRUB® PLUS)**

**Version :01**

**Date of issue: 14.06.2021**

**Date of revision: 14.06.2023**

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

**Product Name : Ethanol, Glycerine & H<sub>2</sub>O<sub>2</sub>Antimicrobial Alcohol Rub (Baccirub® Plus)**

**Recommended use of the chemical and restrictions on use**

**Recommended use** This is for Hospital Use Only This is not a sanitizer

**Restrictions on use** No information available

**Manufacturer details**

T.M. Thakore Pharmaceutical Laboratories  
15-A, Premson's Industrial Estate, Caves Road,  
Jogeshwari (East), Mumbai-400060

**Emergency telephone number**

**Emergency Telephone Tel.:09702369864**

**2. Hazard(s) identification**

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 2

**Hazards not otherwise classified (HNOC)**

Not applicable

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**Label elements**

**Danger**

**Hazard statements**

Highly flammable liquid  
and vapor. Causes serious  
eye irritation.



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Keep away from heat, hot surfaces, sparks, open flames and other ignition  
sources. No smoking Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ ventilating/  
lighting/ equipment Use only non-sparking tools  
Take precautionary measures against static  
discharge Wear protective gloves/eye  
protection/face protection

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy  
to do. Continue rinsing If eye irritation persists: Get medical advice/attention  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin  
with water/ shower In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-  
resistant foam to extinguish

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**Precautionary Statements - Storage**

Store in a cool place

Avoid direct contact with eyes

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other information**

May be harmful if inhaled. Causes mild skin irritation. May cause drowsiness or dizziness.

**3. Composition/information on ingredients**

**Substance**

Not applicable.

**Composition**

Chemical name	CAS No	Weight-%
Ethanol I.P.	64-17-5	80% w/v
Glycerol (Glycerine) I.P.	56-81-5	1.45% v/v
Hydrogen peroxide I.P.	7722-84-1	0.125% v/v
Excipients	-	Q.S.

**4. First-aid measures**

**Description of first aid measures**

**General advice**

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Skin contact**

None under normal use conditions. If skin irritation occurs: Get medical advice/attention.

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**Ingestion**

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider of the material(s)**

Remove all sources of ignition. Ensure that medical personnel are aware involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**

May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**

Treat symptomatically.

**5. Fire-fighting measures**

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**Unsuitable extinguishing media** None known based on information supplied.

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**Specific hazards arising from the chemical**

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Explosion data**

**Sensitivity to mechanical impact:** None

**Sensitivity to static discharge:** Yes

**Special Protective equipment for fire- fighters.** Firefighter should wear self- contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**Special protective**

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**  
required. See

Evacuate personnel to safe areas. Use personal protective equipment as section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

**Other information**

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

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**Methods for containment**  
material. A vapor

Stop leak if you can do it without risk. Do not touch or walk through spilled  
suppressing foam may be used to reduce vapors. Dike far ahead of spill to  
collect runoff water. Keep out of drains, sewers, ditches and waterways.  
Absorb with earth, sand or other non-combustible material and transfer to  
containers for later disposal.

**Methods for cleaning up**  
with inert

Take precautionary measures against static discharges. Dam up. Soak up  
absorbent material. Pick up and transfer to properly labeled containers.

## **7. Handling and storage**

### Precautions for safe handling

**Advice on safe handling**  
away from heat,

Use personal protection equipment. Avoid breathing vapors or mists. Keep  
hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Use grounding and bonding connection when transferring this material to  
prevent static discharge, fire or explosion. Use with local exhaust  
ventilation. Use spark-proof tools and explosion-proof equipment. Keep  
in an area equipped with sprinklers. Use according to package label  
instructions. Handle in accordance with good industrial hygiene and  
safety practice. Avoid contact with skin, eyes or clothing. Do not eat,  
drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**  
away from

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep  
heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric  
motors and static electricity). Keep in properly labeled containers. Do not  
store near combustible materials. Keep in an area equipped with sprinklers.  
Store in accordance with the particular national regulations. Store in  
accordance with local regulations.

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### **8. Exposure controls/personal protection**

#### Control parameters

#### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ethan 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Glycerol 56-81-5	-	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	-
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup> (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m <sup>3</sup>	64-IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup>

#### Appropriate engineering controls

#### Engineering controls

Showers  
Eyewash  
stations  
Ventilation systems.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Tight sealing safety goggles.

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### Hand protection

Wear suitable gloves.

### Skin and body protection apron.

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant  
Antistatic boots.

### Respiratory protection limits are

No protective equipment is needed under normal use conditions. If exposure  
exceeded or irritation is experienced, ventilation and evacuation may be  
required.

### General hygiene considerations clothing should not

Do not eat, drink or smoke when using this product. Contaminated work  
be allowed out of the workplace. Regular cleaning of equipment, work  
area and clothing is recommended. Wash hands before breaks and  
immediately after handling the product.  
Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face  
protection.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties Appearance

Physical state

Liquid clear solution

## 10. Stability and reactivity

**Reactivity:** None under normal conditions.

**Chemical stability:** Stable under normal condition

**Possibility of hazardous reaction:** None under normal condition

**Condition to avoid :** Heat, Flames, Spark

**Incompatible materials**

None known based on information supplied.



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**Hazardous decomposition products** None known based on information supplied.

**11. Toxicological information**

Information on likely routes of exposure

**Product Information**

**Inhalation**

Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May be harmful if inhaled. May cause drowsiness or dizziness.

**Eye contact**  
serious eye

Specific test data for the substance or mixture is not available. Causes irritation. (based on components). May cause redness, itching, and pain.

**Skin contact**  
skin irritation.

Specific test data for the substance or mixture is not available. Causes mild

**Ingestion**

Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms**

May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.

**Acute toxicity**

**Numerical measures of toxicity component:**

<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>InhalationLC50</b>
Ethanol 64-17-5	=7060 mg/kg(Rat)	----	=124.7mg/l (Rat)4 h
Glycerol 56-81-5	=12600 mg/kg(Rat)	>10 gm/kg ( Rabbit)	>570 mg/ m <sup>3</sup> ( Rat) 1 h
Hydrogen Peroxide 7722-84-1	=1518 mg/kg(Rat )	=9200 mg/kg ( Rabbit)	=2000 mg/ m <sup>3</sup> (Rat )

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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. May cause skin irritation. **Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation. **Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target organ effects** Eyes, Skin, and Respiratory system.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Interactive effects** No information available.

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**12. Ecological information**

**Eco toxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanol 64-17-5	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: 13400 - 15100mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)
Glycerol 56-81-5	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-
Hydrogen peroxide 7722-84-1	-	LC50: 18 - 56mg/L (96h, Lepomis macrochirus) LC50: =16.4mg/L (96h, Pimephales promelas) LC50: 10.0 - 32.0mg/L (96h, Oncorhynchus mykiss)	-	EC50: 18 - 32mg/L (48h, Daphnia magna)

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

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**Component Information**

Chemical name	Partition coefficient
Ethanol 64-17-5	-0.32
Glycerol 56-81-5	-1.76

**Other adverse effects**                      No information available.

**13. Disposal considerations**

**Waste treatment methods**

**Waste from residues/unused products**                      Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**                      Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld Containers.

**California Hazardous**                      This product contains one or more substances that are listed with the State of California as  
a haz

Chemical name	California Hazardous Waste Status
Ethanol 64-17-5	Toxic Ignitable
Hydrogen peroxide 7722-84-1	Toxic Corrosive Ignitable Reactive

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**14. Transport information**

Labels Required

Flammable liquid

Category 3 is for ethyl Alcohol because the flash point is below 100<sup>0</sup>F .

Generally, a flammable liquid is a combustible liquid that can easily catch fire. However, it is not the liquid itself that burns, but the vapor cloud above the liquid that will burn if the vapor's concentration in air is between the lower flammable limit (LFL) and upper flammable limit (UFL) of the liquid.

Class 3 Flammable liquids are liquids, or mixtures of liquids, or liquids containing solids in solution or suspension (for example, paints, varnishes, lacquers, etc., but not including substances otherwise classified on account of their dangerous characteristics) which give off a flammable vapor at temperatures of not more than 60°C, closed-cup test, or not more than 65.6°C, open-cup test, normally referred to as the flash point. This class also includes:

Liquids offered for transport at temperatures at or above their flash point; and

1. Substances that are transported or offered for transport at elevated temperatures in a liquid state and which give off a flammable vapor at a temperature at or below the maximum transport temperature.



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**15. Regulatory information**

**Safety, health and environmental regulations / legislation specific for the substance or mixture**

**ETHANOL (64-17-5) IS FOUND IN REGULATORY LISTS**

**GLYCEROL (56-81-5) IS FOUND IN REGULATORY LISTS**

**HYDROGEN PEROXIDE (7722-84-1) IS FOUND IN REGULATORY LISTS**

**16. Other information**

**1. OTHER INFORMATION**

**Ethanol, Glycerine & H<sub>2</sub>O<sub>2</sub> Antimicrobial Alcohol Rub (Baccirub® Plus)** is a trademark of Raman & Weil Pvt. Ltd.

Manufactured By: - T.M. Thakore Pharmaceutical Laboratories

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For complaints or Suggestions: RW Customer care cell 022 – 22049527 / 022 – 22856397.

**End of MSDS**