

SAFETY, HEALTH & ENVIRONMENT**MATERIAL SAFETY DATA SHEET**

Doc. no.: DSSH-10-CLC-00

FEBRUARY 2012

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TITLE**Labsept Hand Rub****1. Identification of the Product and Company**

Product Name	Labsept Hand Rub
Product Code	CLC
Other names	Chlorhexidine Gluconate solution.
Use	Hand and skin topical antiseptic solution for external use.
Company Name & Contact Details	Dishman Pharmaceutical & Chemical Ltd. Bhadr-raj chambers, Swastik Cross Roads, Navrangpura, Ahmedabad, India Tel: +91 (0) 79 26443053 Fax: +91 (0) 79 26420198 Dishman Pharmaceutical & Chemical Ltd. Survey No. 47, Paiki Sub Plot No. 1, Vill. : Lodariyal, Tal. : Sanand, Dist. : Ahmedabad – 382220 (India) Tel: +91 (0) 2717 287192-94 Fax: +91 (0) 2717 287195

2. Hazards Identification

Hazard classification	HAZARDOUS SUBSTANCE DANGEROUS GOODS
Risk Phrases(s)	R10 : Flammable R36 : Irritating to the eyes.
Safety Phrases	S39 : Wear eye/face protection. S26 : In case of contact with eyes rinse immediately with plenty of water & seek medical advice. S23 : Do not breathe gas/fumes/vapour/spray. S51 : Use only in well ventilated areas. S9 : Keep container in well ventilated place. S40 : To clean the floor and all objects contaminated by this material. Use water. S7 : Keep container tightly closed. S27 : Take off immediately all contaminated clothing. S46 : If swallowed, IMMEDIATELY contact Doctor.

3. Composition/Information on ingredients

Chemical Entity	CAS No.	Proportion
Water	7732-18-5	< 30%
Chlorhexidine Gluconate	18472-51-0	0.50%

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Ethyl alcohol	67-63-0	70.00%
PEG 200	25322-68-3	0 – 10%
Glycerin	56-81-5	0 – 10%
Colour : Carmosine	3567-69-9	0 – 10%
Fragrance : Water Melon	---	0 – 10%

4. First Aid Measures**Inhalation**

If fumes or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.

Ingestion

If material is swallowed, get medical attention or advice. If swallowed do not induce vomiting. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.

Skin

No adverse effects anticipated from normal use. Concentrate and diluted solution is readily removed with water. Seek medical attention in event of irritation.

Eyes

If this product comes in contact with the eyes, wash out immediately with fresh running water. If pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Advice to Doctor

Treat symptomatically. If respiration is depressed, assisted respiration may be necessary.

5. Fire Fighting Measures**Specific Hazards**

Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and oxidisers. Vapour forms an explosive mixture with air.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Hazards from Combustion Products

On thermal decomposition: oxides of carbon, nitrogen oxides (Nox), products of chlorine and other pyrolysis products typical of burning organic material.

Precautions & Equipments for Fire Fighters

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters

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should avoid inhaling any combustion products.

HazChem Code

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6. Accidental Release Measures**Spills and Disposal**

Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. In case of large spills, wear protective clothing to prevent skin & eye contact and inhalation of vapors. Contain & absorb using inert material such as sand, earth, vermiculite where appropriate. Collect and seal in properly labeled containers for disposal. Wash area down with excess water.

7. Handling and Storage**Safe handling practices**

Wash thoroughly after handling. Use in well-ventilated area. Avoid eye contact and prolonged inhalation of vapors. When handling do not eat, drink or smoke. Do not use plastic buckets. Use spark-free tools when handling. Avoid physical damage to containers. Use good occupational work practice.

Storage

Store in original containers in approved flame-proof area. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Avoid storage with oxidisers strong alkalis and strong acids. Protect containers against physical damage and check regularly for leaks. Keep cool. Store below 25 deg.C.

8. Exposure Controls; Personal Protection**Exposure limits**

There are no known exposure limits for this product but the following Threshold limit values (TLV) for Ethyl alcohol should be used: Ethyl alcohol TLV 1000 ppm TWA; 1900 mg/m³ TWA.

OSHA & ACGIH; 1000 ppm TWA.

The following materials had no OELs on our records.

Chlorhexidine gluconate : CAS : 18472-51-0

Glycerin : CAS : 56-81-5

PEG 200 : CAS : 25322-68-3

Carmoisine : CAS : 3567-69-9

Water : CAS : 7732-18-5

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TITLE**Labsept Hand Rub****Engineering Controls**

General exhaust is adequate under normal operating conditions. Correct fit is essential to obtain adequate protection. Provide adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Avoid creation of aerosols. Local and or mechanical (general) exhaust, fitted with flame and explosion proof electrical fittings.

Personal Protection

Obey reasonable safety precautions and practice good housekeeping.

9. Physical & Chemical Properties**Appearance & Odour**

Clear colourless solution with characteristic odour.

pH

6.5 - 8.5

Vapour Pressure

59.3 mm Hg @ 20 deg C (Ethanol)

Vapour Density

1.59 (Ethanol)

Boiling Point

78 deg.C. (Ethanol)

Freezing/Melting Point

-114.1 deg C (Ethanol)

Solubility

Soluble in water.

Specific Gravity / Density

0.850 – 0.950 gm/ml.

Flash Point

16.6 deg C (Ethanol)

Viscosity

1.200 cP @ 20 deg C (Ethanol)

10. Chemical Stability & Reactivity Information**Conditions Contributing to instability**

Stable under usual application conditions.

Hazardous Polymerization

Hazardous polymerization will not occur.

Incompatible Materials

Keep away from incompatible materials.

Conditions to avoid

Keep away from heat, spark, flames and all other sources of ignition.

Hazardous Decomposition products

On thermal decomposition oxides of carbon, nitrogen oxides (Nox), other pyrolysis products typical of burning organic material.

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TITLE**Labsept Hand Rub****11. Toxicological Information**

Inhalation	The vapour is discomforting. Inhalation hazard is increased at higher temperatures.
Ingestion	The liquid is highly discomforting and harmful if swallowed in quantity. Ingestion may result in intoxication, drunkenness.
Skin	The material may cause skin irritation after prolonged or repeated exposure. Not considered an irritant through normal use.
Eye	The materials may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
Acute toxicity	Toxicity : Not available. Refer to individual constituents.
Acute toxicity (for Ethyl Alcohol)	Oral, rat: LD50 = 7060 mg/kg Inhalation, rat: LC50 = 20000 ppm/10H
Acute toxicity (for Chlorhexidine gluconate)	Oral, rat: LD50 = 2000 mg/kg.
Acute toxicity (for PEG 200)	Oral, rat: LD50 = 4000 mg/kg.
Acute toxicity (for Glycerin)	Oral, rat: LD50 = 12600 mg/kg. Inhalation, rat: LC50 = >570 mg/m ³ /1H.
Acute toxicity (for Water)	Oral, rat: LD50 = >90 mL/kg.
Acute toxicity (for others)	No significant acute toxicological data identification in literature search for Carmoisine.

12. Ecological Information

Do not discharge into sewer or waterways. Refer to data for ingredients, which follows :

Persistence & Degradability:	No data available.
Ecotoxicity (for Ethyl Alcohol)	Fish: Rainbow trout: LC50 = 12900-15300 mg/L; 96 Hr; Flow-through @ 24-24.3°C Fish: Rainbow trout: LC50 = 11200 mg/L; 24 Hr.
Ecotoxicity (for Glycerin)	LC50 (96 Hr.) rainbow trout = 50-67 mg/L; 12 degrees CLC50 (96 Hr.) goldfish = >5000 mg/L
Ecotoxicity (for others)	No significant Ecotoxicity data identification in literature search for Chlorhexidine gluconate, water, PEG 200 and Carmoisine.

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TITLE**Labsept Hand Rub****13. Disposal Considerations****Disposal Methods & Containers:**

Dispose of in a manner consistent with federal, state, and local regulations.

14. Transport Information

UN Number	UN1170
UN Proper Shipping Name	ETHANOL SOLUTION
DG Class & Subsidiary Risk	3
Packing Group	II
HazChem Code	2[Y]

15. Regulatory Information

Not classified using the criteria in the Standard Uniform Schedule for Drugs and Poisons.

16. Other Information

Legal disclaimers :

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. **DISHMAN PHARMACEUTICALS & CHEMICALS LTD** shall not be held liable for any damage from handling or from contact with the above product.