

Material Safety Data Sheet

Product Name : MICROCLEAN-H

MSDS No. : MSDS/FZDM02/01 | Version No. : 01

Effective Date: 28/09/2011

Ref. SOP: SOP/QA/020/02

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1. Identity of Material

Product Name	Benzalkonium Chloride Solution 4.5%	
Trade Name	MICROCLEAN-H	
Formula	Label : Benzalkonium Chloride Solution 4.5% Category: Hard Surface Disinfectant. Class: AmmoniumAlkyldimethylbenzyl chloride CAS Number : Not assigned for the product	UN Number: 1760
Regulated Identification	Shipping Name: Benzalkonium Chloride Solution 4.5% Codes/ Label : Corrosive material / 8	HAZCHEM CODE
	Hazardous Waste: Not available Identification Number: Not available	
Sr.No.	Ingredients :	CAS Number:
1.	Benzalkonium Chloride	8001-54-5
2.	Water	7732-18-5

2. Physical and Chemical Properties

Physical State : Liquid	Boiling point in degree C: Not available	Vapour Pressure of 33 degree c mm hg : Not available
Appearance : Orange coloured clear, transparent liquid	Melting/Freezing Point in degree C : Not applicable	Evaporation rate at 30 degree C: Not applicable
Other Corrosivity: Not available.	Specific Gravity: - Not available.	pH : 5.5 to 7.5

3. Fire and Explosive Hazard Data

Explosion/ Flammability: Flammable in presence of heat.	Flash point (deg.) OPEN CUP : 250 ⁰ C (482 ⁰ F)	LEL : Not Applicable	Auto ignition Temperature degree C :Not available
		UEL :Not Applicable	TDG Flammability (classification) : 0

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4. Reactivity Hazards

	IMPACT	Hazardous Combustion Products: Not available.
Stability: The product is stable.	Static Discharge: Slightly reactive to reactive with oxidizing agent.	Stable under ordinary conditions of use and storage. Excess heat can contribute to instability.
	Reactivity: Hygroscopic. Also incompatible with nitrates, anion detergents	Conditions to avoid: Excess of moisture.

(Hazardous Polymerisation)	May not occur
Compatibility: Slightly reactive to reactive with oxidizing agent.	Materials to avoid: Not Applicable

5. Health Hazard Data

Routes of Entry: Absorbed through skin, dermal contact, eye contact & ingestion.

Effects of Exposure/symptoms: Not available

LD 50 (in rat) (oral) : 240 mg/Kg

Permissible Exposure ppm mg/cu.m : Not available	Short term Exposure Limit (STEL) ppm mg/cu/m : Not available
Threshold Limit ppm mg/cu.m : Not available Value (TI .V) of Aogih Not available	Odour ppm mg/cu/m :Not available
<p>Emergency Treatment: Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.</p> <p>Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.</p> <p>Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband</p>	

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6. Hazard Specification

NFPA Hazard signal	Health	Flammability	Reactivity	Special
Known Hazard	3	0	0	-
Pophoric Material	-	-	-	-
Explosive Material	-	-	-	-
Unstable Material	-	-	-	-

7. Safe Usage Data

Ventilation	General Local Exhaust
Equipment Required	Eyes : Splash goggles Respiratory: Vapour respirator. Gloves: Protective gloves. Clothing: Face shield. Full suit. Vapour respirator. Be sure use to use an appropriate/ certified respirator or equivalent. Gloves. Boots. Others: Suggested protective clothing might not be sufficient. Consult a Specialist before handling it.
Precautions	Handling: Keep locked up.. Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, moisture. Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Emergency Response Data

Equipment required	Fire Extinguish Media: Not applicable.
	Special Procedures: Not available.
	Unusual Hazards: Not available.
Exposure (Inhalation, skin, and eye contacts mention)	Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes

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	<p>before reuse. Get medical attention immediately.</p> <p>Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.</p> <p>Eye: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.</p>
Spills	Steps to be taken: Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

9. Additional Information

DISCLAIMER: Information contained in this MSDS is believed to be reliable but no representation; guarantee or warranties of any kind are made us to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer/seller to ensure that the information contain in the MSDS is relevant to the product manufactured/ handled or sold by him as the case may be .The TCPL makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

10. Additional Information

References:

- MSDS format as per Gujarat factories rules, 1963, Schedule-5, Rule 68-J.
- www.Hazard.com, www.sciencelab.com.
- Fire & Explosion hazards handbook of industrial chemicals.

11. Manufactures Data

Firms Name: TORREL COS. PVT. LTD.
Mailing Address : C/2 SAFAL PROFITAIRE, OPP. AUDA GARDEN, PRAHALADNAGAR, SATELLITE, AHMEDABAD, , GUJARAT, INDIA. 380015
Telephone Number: 079-29701703