

**Material Safety Data Sheet**

**Product Name : TORCILOL ECO**

**MSDS No. : MSDS/FZDT03/02**

**Version No. : 02**

**Effective Date: 01/10/2011**

**Ref. SOP: SOP/QA/020/02**

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**1. Identity of Material**

Product Name	Stabilized Hydrogen peroxide & Silver Nitrate Solution.	
Trade Name	TORCILOL ECO	
Formula	Label : Stabilized Hydrogen peroxide 11 % w/v Diluted Silver Nitrate Solution 0.01 % w/v Category : Environmental disinfectant Class : Not available CAS Number : Not assigned for the product.	UN Number: For Hydrogen peroxide : 2014 For Silver Nitrate : 1493
Regulated Identification	Shipping Name : Stabilized Hydrogen peroxide & Silver Nitrate Solution. Codes/ Label : Oxidizing material 5.1	HAZCHEM CODE : Not available
	Hazardous Waste : Not available Identification Number: Not available	
Sr.No.	Ingredients	CAS Number
1.	Stabilized Hydrogen peroxide	7722-84-1
2.	Diluted Silver Nitrate Solution	7761-88-8
3.	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 : Clear colorless solution	Melting/Freezing Point in degree C : Not applicable	Evaporation rate at 30 degree C : Not available
Other Corrosivity : Not available	Specific Gravity : Not available	pH : 1.0 to 3.0

**3. Fire and Explosive Hazard Data**

Explosion/Flammability :	Flash point (deg.) Flash point (deg.) :	LEL : Not applicable	Auto ignition Temperature degree C : Not applicable
Non flammable	Not applicable	UEL : Not applicable	TDG Flammability (classification) : 0

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**4. Reactivity Hazards**

	IMPACT: Excess of heat, Incompatible materials, light.	Hazardous Combustion Products : Not available
Stability to: The product is stable.	Static Discharge : Not available	Hazardous Decomposition Products : Not available
	Reactivity: Sensitive to light.	Conditions to avoid : Excess of heat, Incompatible materials, light

(Hazardous Polymerisation)	May not occur
Compatibility	Reactive with reducing agent, combustible material, organic material, alkalis.

**5. Health Hazard Data**

Routes of Entry: Inhalation, skin, eye contact and ingestion

Effects of Exposure/symptoms: Causes skin irritation, eye irritation, lung sensitization, coughing, shortness of breath, itching.

LD 50 (in rat) orally: Not available

Permissible Exposure ppm mg/cu.m : Not available	Short term Exposure Limit (STEL): Not available
Odour Threshold Limit pp mg/ cu.m : Not available	
Value (TI.V) of Aogih : Not available	
Emergency Treatment: If ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes.	

**6. Hazard Specification**

NFPA Hazard signal	Health	Flammability	Reactivity	Special
Known hazard	3	0	1	-
Combustible Liquid Flammable Material	-	-	-	-
Prophoric Material	-	-	-	-
Explosive Material	-	-	-	-
Unstable Material	-	-	-	-

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**7. Safe Usage Data**

Ventilation	General Local Exhaust
Equipment Required	Eyes: Splash goggles. Respiratory : Vapour respirator Gloves: Protective. Clothing: Protective apron.
Precautions	Handling: Keep locked up. Keep container dry. Keep away from heat. Keep away from source of ignition. Keep away from combustible material. Do not ingest. In case of insufficient ventilation, wear suitable respiratory equipment. Storage: Keep container tightly closed. Keep container in cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustible. Store in cool place.

**8. Emergency Response Data**

Equipment required	Fire Extinguish Media: Small fires: Use water. Do not use dry chemicals or foams. CO <sub>2</sub> or Halon may provide limited control. Large fires: Flood fire area with water from distance. Move containers from fire area if you can do it without risk.
	Special Procedures: Contact with combustible or organic materials may cause fire. Most cellulose materials contain enough catalyst to cause spontaneous ignition with 90% Hydrogen Peroxide. Hydrogen Peroxide is a strong oxide. It is not flammable itself, but it can cause spontaneous combustion of flammable materials and continued support of the combustion because it liberates oxygen as it decomposes. Hydrogen peroxide mixed with magnesium and a trace of magnesium dioxide will ignite immediately.
	Unusual Hazards: Not available .
Exposure (Inhalation, skin, and eye contacts ingestion)	First Aid Measure: Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15minutes. Cold water may be used. Get medical attention immediately Skin Contact: 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.

**Torrel Cos. Pvt. Ltd.**

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Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.  
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Spills

Steps to be taken: Dilute with water and mop up, or absorb with an inert dry material and Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**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](http://www.Hazard.com), [www.sciencelab.com](http://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**