

ViraWarn™
by OPTEEV™



ViraWarn: Model Patriot

Getting Started with ViraWarn

ViraWarn: Model Patriot

QC-OPTVW-001-121521



Table of Contents

Overview 2

Safety Precautions 3

Unpacking the Box 3

ViraWarn: Model Patriot..... 4

Assembling the Unit..... 5

Adding the Media..... 5

Installation Location and Procedure 6

Device Operation 7

 Initialization 8

 Normal Operatoing Condition 8

Overview

Congratulations on your purchase of a ViraWarn Patriot Founders Edition, a viral detection system. We thank you, and we are here to support your effective use of the product. This document covers the ViraWarn Model Patriot.

Please use this document to properly operate your ViraWarn Patriot. For new ViraWarn Patriot customers, we suggest you read through the entire document before starting. If you have experienced the product, and only need specific instructions, please use the table of contents to navigate to the information you need.

For any further assistance you can reach out to Opteev support team at +1-443-457-1370 or you can send your queries at support@opteev.com.

Let's get started!

Safety Precautions

The following points should be followed:

1. ViraWarn Patriot must only be used for the purposes described in this manual.
2. ViraWarn Patriot is intended for indoor use only.
3. ViraWarn Patriot should not be used or stored in direct or reflected sunlight.
4. ViraWarn Patriot should be operated & stored at temperatures between 50°F - 90°F (10°C - 32°C).
5. Store ViraWarn Patriot in a clean and dry area.
6. Do not submerge ViraWarn Patriot in water.
7. Do not drop ViraWarn Patriot.
8. Follow the instructions given in the manual to replace the refill bottles.
9. Do not disassemble ViraWarn Patriot.
10. Do not tilt ViraWarn Patriot after adding media in the detector chamber.
11. If you experience problems with your ViraWarn Patriot, contact Opteev support.

! IMPORTANT: The manufacturer reserves the right to alter the specifications of this product without prior notice

Unpacking the Box

Your ViraWarn Patriot VW-X box should include:

- ViraWarn Patriot (**Figure 1**)
- One power cable
- One refillable detector chamber (**Figure 2**)
- Six refill bottles (**Figure 3**)
- ViraWarn Patriot Quick-Start Guide



Figure 1
ViraWarn: Model Patriot



Figure 2
Sealed Detector Chamber



Figure 3
Refill bottles

ViraWarn: Model Patriot

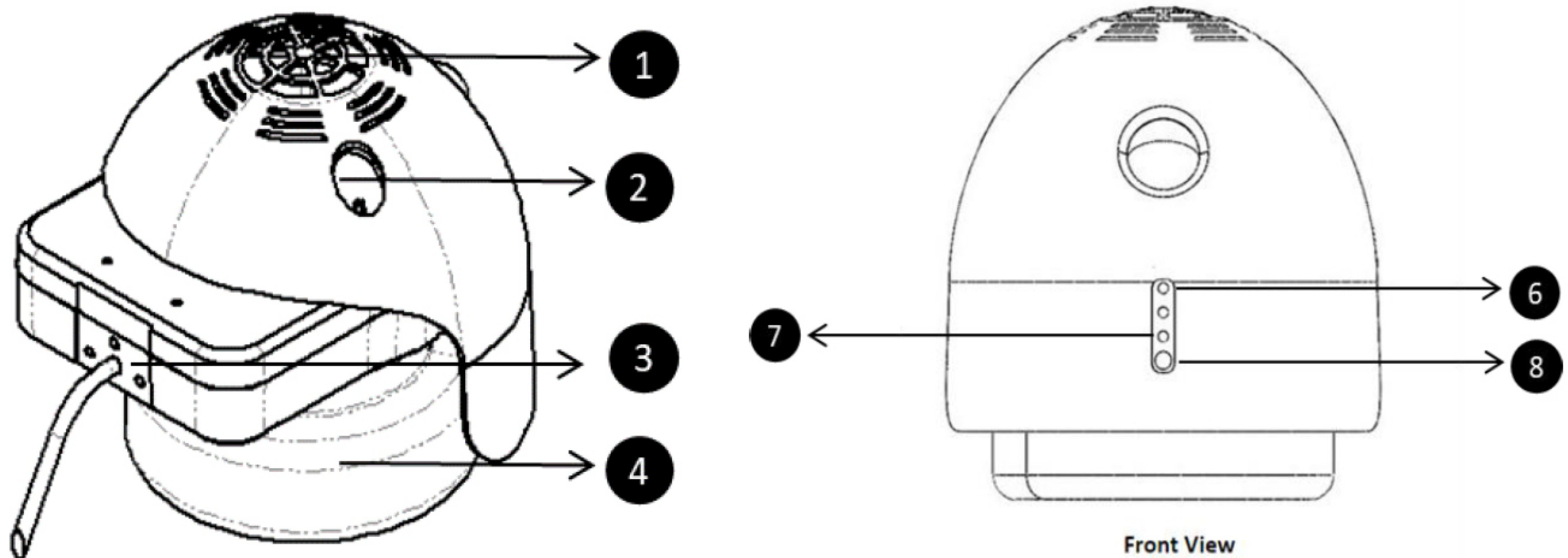


Figure 4

- 1 Air Suction
- 2 Refill Port
- 3 Power Cord
- 4 Detector Chamber
- 5 Motion Detector
- 6 Power Indicator
- 7 Media Level Indicator
- 8 Virus Indicator

Assembling the Unit

1. Remove the ViraWarn Patriot and a detector chamber from the box.
2. Attach the detector chamber to the ViraWarn Patriot by rotating it in a clockwise direction as shown in **Figure 5**.
3. Place the assembled unit on a sturdy platform, preferably on a table or a desk.

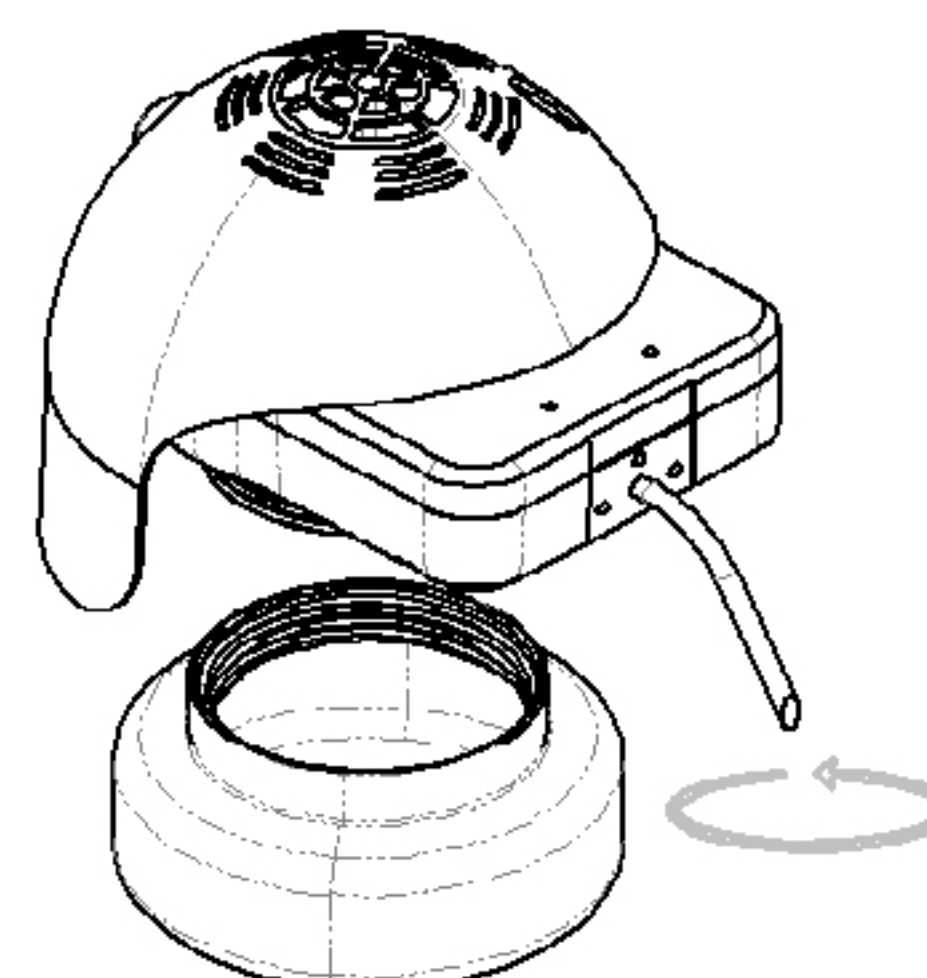


Figure 5

Adding the Media

1. Remove two refill bottles from the ViraWarn Patriot box (**Figure 6**).
2. Rotate the cap to open the tube of one bottle/tube (**Figure 7**). (**DO NOT** throw away the cap).
3. Invert and insert the bottle through the refill port and hold it a little bit up as shown in **Figure 8**. Ensure the seal has been broken when inserted into the refill port. Before removing it, make sure the tube is empty.
4. Empty the second bottle in the same manner.
5. Discard the empty refill bottle.

! IMPORTANT: In order to achieve proper functioning, fill or refill the ViraWarn Patriot using two (2) refill tubes.

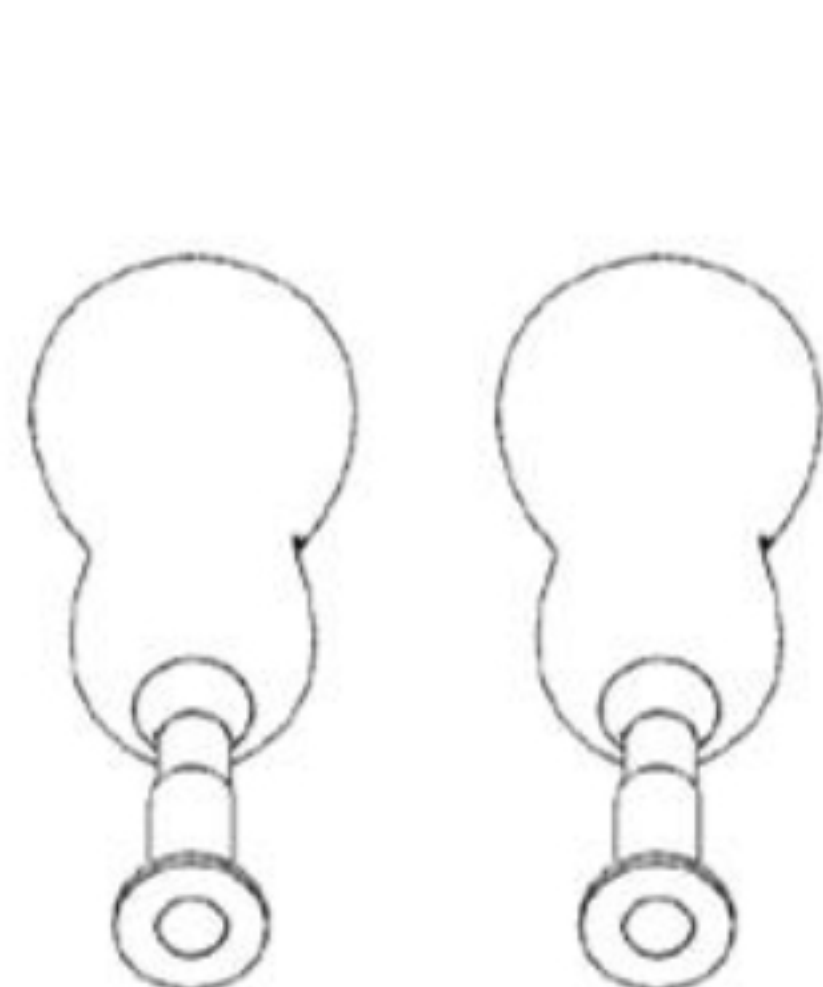


Figure 6

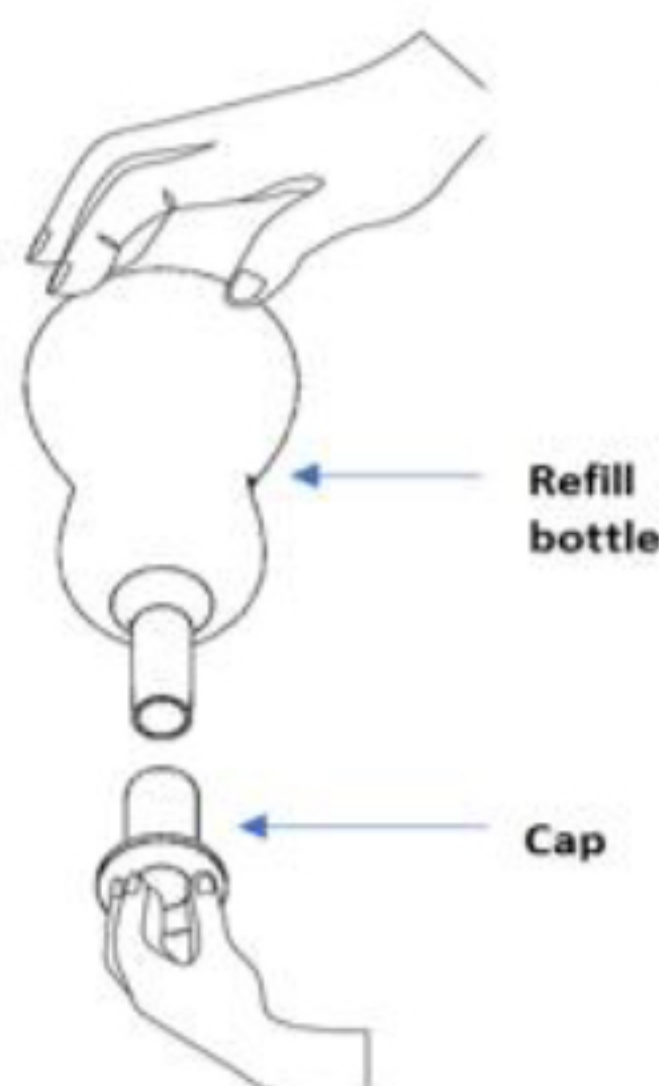


Figure 7

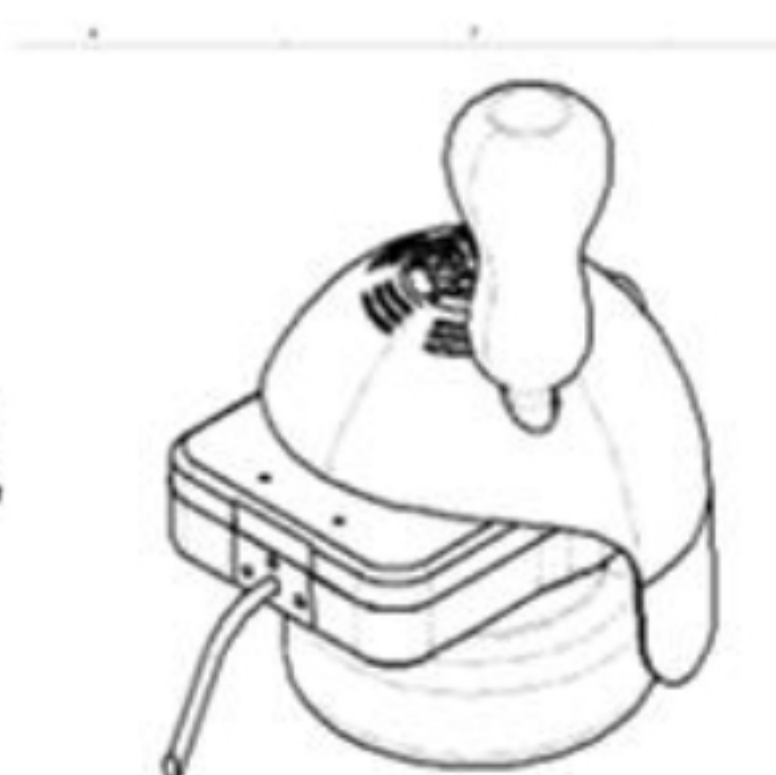


Figure 8



Figure 9

Installation Location and Procedure



WARNING: After adding the media, do not tilt the ViraWarn Patriot.

Maximum capacity of the detector chamber is with two refill bottles. Please do not overfill the detector chamber.

ViraWarn Patriot comes with a power cord.

After adding the media, you can power up the ViraWarn Patriot by plugging the power cord into wall outlet as shown in **Figure 10**.



Figure 10

Device Operation:

Place ViraWarn Patriot on a steady flat surface and power it up by plugging the power cord into a wall outlet.



Figure 11

The lights (LEDs) in the front indicate the states of various functionalities (**Table 1**) of ViraWarn Patriot.

INDICATION	COLOR
Power Input	WHITE
Media Level	WHITE (steady/blink)
Virus Detection	GREEN/RED (steady/blink)

Table-1

ViraWarn Patriot uses different indications during initialization & normal operating condition.

Initialization:

Once the ViraWarn Patriot is powered on, it enters the initialization state.

1. There will be a one-time buzzer sound to indicate the initialization process.
2. The fan will run for ten (10) minutes in its default configuration, if the container is not empty else it will run for five (5) seconds if the container is empty.
3. The power light will have a steady white glow indicating power input to your ViraWarn Patriot.
4. The media level indicator indicates the level of liquid media present in the detector chamber. This light will be activated once the device exits the initialization phase.
5. The virus detection light is for viral load status in the closed room. During initialization this will blink in green.

Normal Operating Condition:

After initialization, the ViraWarn Patriot will enter its normal operating condition.

1. **IMPORTANT NOTE!** The fan will be automatically **turned off after 10 minutes** on the device.
2. The power light will have steady white glow if the unit has power; this **does not mean** the unit is running and actively monitoring.
3. To reactivate your Patriot unit, cycle the power using the on/off switch on the power cord and a new 10-minute monitoring cycle will begin.
4. The media level indicator light has two states:
 - a. **Steady white:** Liquid media is in acceptable level.
 - b. **Blinking white:** Liquid media is below acceptable level or detector chamber is empty. ViraWarn Patriot will automatically turn off its functionality. In this case the detector chamber needs to be refilled by following the steps as mentioned in 'Adding the Media'.
5. The virus detection light has four states indicating safe or a contaminated environment. **Table-2** explains the various states and actions to be taken by users if they encounter these cases:



Figure 12



Figure 13

Glow	Indication	Action to be taken
Steady Green	Safe airspace	No action is required
Blinking Red (Slow)	Possible contamination Level-1	User should be alert
Blinking Red (Fast)	Possible contamination Level-2	User should be alert
Steady Red	Virus Detection- contamination of airborne viruses in the airspace	Evacuate the room, switch off the device for 30 minutes.

Table-2

6. At the time of virus detection (indicated by Red light) the buzzer will be on and will be continued for two minutes if the state of detection remains same.

ZREYAS TECHNOLOGY PVT. LTD.

(Regd. Under Company's Act 2013), CIN no- U72200WB2012PTC184727

Corp. Add: 12ES3, Mani Casadona, Plot No. II F/04, Action Area: II-F,
Rajarhat, Newtown, Kolkata:-700156 (India)

Regd. Add: 62J, Maharaja Tagore Road, Dhakuria, Kolkata- 700031 (India)

Email: contact@zreyastechnology.com | Contact No: 033-40056862



MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS: Zreyas Technology Pvt. Ltd.
12ES3, Mani Casadona Building

EMERGENCY TELEPHONE NUMBERS: 9836086789

PRODUCT NAME: Tris Buffer saline
CHEMICAL NAME: Tris 100 micro molar in deionized water
PRODUCT USE: Indoor use
PRODUCT CODE:

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

Transparent liquid

HEALTH HAZARDS: Not harmful

PHYSICAL HAZARDS: NA

ENVIRONMENTAL HAZARDS: Not hazardous.

SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE
Tris buffer saline	100 %

SECTION 4- FIRE FIGHTING MEASURES

National Fire Protection Rating (NFPA)

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0
4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

FLASHPOINT: NA

EXTINGUISHING MEDIA: NA

FIRE AND EXPLOSION HAZARD: NA

FIRE FIGHTING INSTRUCTIONS: NA

ZREYAS TECHNOLOGY PVT. LTD.

(Regd. Under Company's Act 2013), CIN no- U72200WB2012PTC184727
Corp. Add: 12ES3, Mani Casadona, Plot No. II F/04, Action Area: II-F,
Rajarhat, Newtown, Kolkata:-700156 (India)
Regd. Add: 62J, Maharaja Tagore Road, Dhakuria, Kolkata- 700031 (India)
Email: contact@zreyastechnology.com | Contact No: 033-40056862



FIRE FIGHTING EQUIPMENT: NA

SECTION 5 - HANDLING AND STORAGE

HANDLING: Minimize dust generation and accumulation.

STORAGE: Keep container closed when not in use.

SECTION 6 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent, color less liquid
Odor:	odor less
pH:	8.62 at 12.11 mg/L at 25 °C
Melting Point:	NA
Boiling Point:	60°C -101°C
Flash Point:	NA
Evaporation Rate:	0.0012 kg/hr at 80°C
Flammability:	Not flammable
Flammability Limits:	Not applicable
Vapor Pressure:	22.95 hPa @ 20°C
Vapor Density:	0.621
Density:	
Solubility:	Completely soluble in water

SECTION 7 - STABILITY AND REACTIVITY

PRODUCT REACTIVITY: Non-reactive

CHEMICAL STABILITY: Stable under normal conditions.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization

CONDITIONS TO AVOID: Avoid temperatures above 100°C for prolonged period of time.

ZREYAS TECHNOLOGY PVT. LTD.

(Regd. Under Company's Act 2013), CIN no- U72200WB2012PTC184727
Corp. Add: 12ES3, Mani Casadona, Plot No. II F/04, Action Area: II-F,
Rajarhat, Newtown, Kolkata:-700156 (India)
Regd. Add: 62J, Maharaja Tagore Road, Dhakuria, Kolkata- 700031 (India)
Email: contact@zreyastechnology.com | **Contact No:** 033-40056862



INCOMPATIBLE MATERIALS: None known

SECTION 8 - ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product is claimed to be absolutely nonhazardous to any animals and human beings.

SECTION 9 - OTHER INFORMATION

HAZARD RATINGS	HEALTH	0
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

DISCLAIMER: The information presented herein is based on available data from laboratory named Sadguru Research and analysis laboratory and is correct to the best of Zreyas knowledge. Zreyas makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

We have availed the entire data for Sadguru Research and analysis laboratory(Registration Number: UDYAM-WB-10-0022004). Documents are attached herewith



Authorized Signatory