

## MATERIAL SAFETY DATA SHEET

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This MSDS has been prepared by PSK Pharma Pvt. Ltd., Quality Assurance Dept.

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME**

HOSPAL-MI Plus  
Enzymatic Cleaner

**COMPANY:**

PSK Pharma Private Limited  
121/22, Mahajenahalli,  
Shimoga Road, Harihar – 577 601  
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**RECOMMENDED USE:** Enzyme based detergent used for cleaning of surgical Instruments

### 2. COMPOSITION

Ingredient Name	CAS Number	Percent by Weight
Enzymes	Not applicable	1 - 5
Nonionic Surfactant	Trade Secret	1 - 5
Solvent	Trade Secret	5 - 10
Water	7732-18-5	85 - 95

### 3. HAZARDS IDENTIFICATION

#### 3.1. Classification of the substance / mixture:

- Flammable Liquid: Category 4.
- Serious Eye Damage/Irritation: Category 2A.
- Respiratory Sensitizer: Category 1.
- Skin Sensitizer: Category 1A.
- Reproductive Toxicity: Category 1B.

#### HAZARD STATEMENTS:

- Combustible liquid.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.

#### PRECAUTIONARY STATEMENTS

##### General:

- Keep out of reach of children.
- If medical advice is needed, have product container or label at hand.

##### Prevention:

- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- In case of inadequate ventilation wear respiratory protection.
- Wear protective gloves and eye/face protection.
- Wash thoroughly after handling.

##### Response:

- IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- 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: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- IN CASE OF FIRE: Use a firefighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

##### Disposal:

- Dispose of contents/container in accordance with applicable regulations.

##### Pictograms:



## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures:

- IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- 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: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- IN CASE OF FIRE: Use a firefighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

### 4.2. Most important symptoms and effects, both acute and delayed:

See Section 11.1 Information on toxicological effects

### 4.3. Indication of any immediate medical attention and special treatment required:

Not applicable.

## 5. FIRE FIGHTING MEASURES

### 5.1. Suitable extinguishing media

In case of fire: Use a firefighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

## 6. ACCIDENTAL RELEASE MEASURES (SPILL)

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using

non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling:

Avoid skin contact with hot material. Do not use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard. Use personal protective equipment (gloves, respirators, etc.) as required.

### 7.2. Conditions for safe storage including any incompatibilities:

Store in a well-ventilated place. Store below 25 deg.C. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.2. Exposure controls:

**8.2.1. Engineering controls:** Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant exposure limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE):

- **Eye/face protection:** Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
  - Safety glasses with side shields.
  - Indirect vented goggles
- **Skin/hand protection:** Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Gloves made from the following material(s) are recommended: Nitrile rubber
- **Respiratory protection:** None required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour	Clear, viscous liquid, with a pale yellow/brown colour
pH	5.0 – 8.0
Boiling point	Not determined
Melting point	Not determined
Water Solubility	Complete
Specific gravity	1.00-1.01
Flash point	Not determined
Autoignition temperature	Not determined
Evaporation rate	Not determined

## 10 STABILITY AND REACTIVITY

**10.1 Reactivity:** This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

**10.2 Chemical stability:** Stable

**10.3 Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**10.4 Conditions to avoid:**

- Heat
- Light

**10.5 Incompatible materials:**

- Strong acids.
- Strong bases.
- Strong oxidizing agents.
- Reactive Metals.

**10.6 Hazardous decomposition products:**

**Substance**

Carbon monoxide.  
Carbon dioxide.

**Condition**

Not specified.  
Not specified.

## 11. TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Allergic Respiratory Reaction:** Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

#### Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

#### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

## 12. ECOLOGICAL INFORMATION

No product test data available

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/ container in accordance with the local/regional/national/international regulations. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## 14. TRANSPORT INFORMATION

Not hazardous for transportation.

### Air Transport (IATA) Regulations:

**UN No:** Not applicable

**Proper Shipping Name:** Not applicable

**Hazard Class / Division:** Not applicable

**Subsidiary Risk:** Not applicable  
**Packing Group:** Not applicable

**Marine Transport (IMDG):**

**UN No:** Not applicable  
**Proper Shipping Name:** Not applicable  
**Hazard Class / Division:** Not applicable  
**Subsidiary Risk:** Not applicable  
**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable

**15. REGULATORY INFORMATION**

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

**Applicable Environmental, Health and Safety Regulations**

The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989  
Hazardous Waste(Management , Handling & Transboundary) Rules, 2008

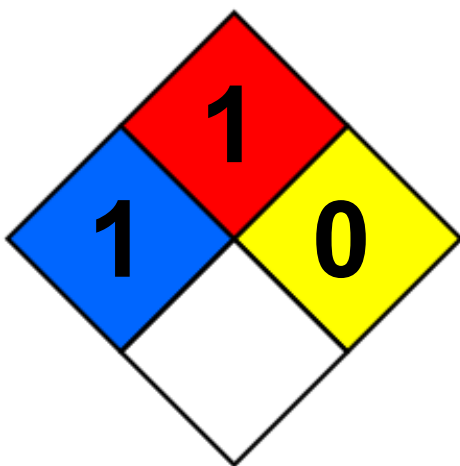
**The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules**  
None.

**The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:**  
The product is classified as Non-Hazardous as per MSIHC Rules, 1989.

**16. OTHER INFORMATION**

**NFPA Hazard Classification**

**Health: 1 Flammability: 1 Instability: 0 Special Hazards: None**



The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet, which involves using the product, or otherwise that in accordance with instructions of use on product packaging is the responsibility of the user. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Customer Care at +91 96060 69014.