

MATERIAL SAFETY DATA SHEET

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

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
Hospal-G Plus

COMPANY:

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RECOMMENDED USE: Disinfecting and Sterilising Solution for Surgical Instruments.

2. COMPOSITION

Ingredient Name	CAS number	Percentage (w/v)
GLUTARALDEHYDE	111-30-8	2.0 - 2.6
PURIFIED WATER	7732-18-5	96 - 98

3. HAZARDS IDENTIFICATION

NOTE: DANGEROUS GOODS. NON-HAZARDOUS SUBSTANCE.

POISONS SCHEDULE NONE ALLOCATED

Contact with eyes: Irritating to eyes (R36)
Contact with skin: Irritating to skin (R38)
Inhalation: Irritating to respiratory system (R37)
Ingestion: Harmful if swallowed (R22)

Health Hazards Acute and Chronic :

EYE : Solution causes damage, including possible corneal injury. Vapours of glutaraldehyde may cause stinging sense in eye with excess tear production. Blink, slight excess redness of conjunctiva.

SKIN : Can cause irritation / damage. Repeated exposure can result in sensation, allergic contact dermatitis.

INHALATION : Vapor irritation, respiratory tract, cause sting sense in nose / throat.(supplement)
Explanation of carcinogenicity : per MSDS : listed as carcinogen by NTP/IARC/OSHA : No.
Effects of overexposure : see health hazards.

CHRONIC : May cause skin sensation in small proportion of individuals and develop into allergic contact dermatitis. This usually results from contact with solution, but occasionally there may be reaction to glutaraldehyde vapor.

Medical conditions aggravated by exposure :Skin contact may aggravate pre existing dermatitis
Inhalation of glutaraldehyde vapors may aggravate pre existing Asthma, Bronchitis, Inflammation or Fibrotic pulmonary disease.

4. FIRST AID MEASURES

EYE CONTACT

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

SKIN CONTACT

Wash with water, remove contaminated clothing.

INHALATION

Remove person to fresh air. If signs/symptoms develop, get medical attention.

IF SWALLOWED

Do not induce vomiting unless instructed to do so by medical personnel. Give person two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES

Non flammable, aqueous solution.

SUITABLE EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

EXPOSURE HAZARDS DURING FIRE

Vapors may travel long distances along the ground or floor to an ignition source and flash back. Closed containers exposed to heat from fire may build pressure and explode.

FIRE FIGHTING PROCEDURES

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Turnout Gear) and a self-contained breathing apparatus (SCBA).

Combustion Products from Fire

Combustion Products from Fire are listed in Section 10, STABILITY AND REACTIVITY.

HAZCHEM CODE 2[Y]E

6. ACCIDENTAL RELEASE MEASURES (SPILL)

Personal Precautions

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Spill Response

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. 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. Seal the container. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel.

Neutralising Agent : Neutralize glutaraldehyde odor : Approximately 550g ammonium carbonate powder/gal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Keep container tightly closed when not in use. Avoid contact with oxidizing agents. Handling by protective equipment.

Conditions for Safe Storage

Keep container closed when not in use. Store at 25°C.

Incompatibility - Materials to Avoid

Store away from acids. Store out of direct sunlight. Store away from heat. Store away from oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Special Information, Exposure/Protection

The extent to which the following recommendations for exposure control and protection are observed should depend on the risk assessment undertaken for the specific conditions under which this product is used, including occupational hygiene measurements.

Recommended Ventilation :
Use in a well-ventilated area.

Eye Protection :
Avoid eye contact by using eye protection when handling or pouring.

Skin Protection
Avoid skin contact as possibility of sensitisation exists. Wear gloves while handling the product.

Respiratory Protection
Avoid breathing vapours, mists or spray.

Prevention of Accidental Ingestion

Do not ingest. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Base Solution	
Appearance and Odour solution.	Almost colourless clear characteristic odour
pH	3.5 – 4.5
Activator	
Appearance powder.	Green coloured crystalline
Activated Solution	
Appearance	Green coloured clear solution.
PH	7.50-8.50
Vapour pressure	24 mm Hg
Vapour density	Not determined
Boiling point	100 °C
Melting point	Not determined
Water Solubility	Complete
Specific gravity	1.0-1.1
Flash point	Not determined
Autoignition temperature	Not determined
Evaporation rate	Not determined

10 STABILITY AND REACTIVITY

Stability

Stable. Hazardous polymerisation will not occur.

Conditions to Avoid

Exposure to heat

Materials to Avoid

Strong acids. Strong Oxidising Agents. Sparks and/or Flames. Strong alkalis.

11. TOXICOLOGICAL INFORMATION

Effects from Eye Contact

May cause mild eye irritation. Signs/symptoms can include redness, swelling, pain and watering of eyes.

Effects from Skin Contact

Allergic Skin Reaction: Signs/symptoms can include redness, swelling, blistering and itching.

Effects from Inhalation

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May be absorbed following inhalation and cause target organ effects.

Effects from Ingestion

May be absorbed following ingestion and cause target organ effects.

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

12. ECOLOGICAL INFORMATION

Ecotoxicity Data

Not determined

Environmental Data

Not determined

Ecofate Data

Not determined.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

14. TRANSPORT INFORMATION

Not classified as hazardous under transport regulations.

15. REGULATORY INFORMATION

NIL

16. OTHER INFORMATION

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 Quality Control Incharge at 91 8192 240 317.