

MATERIAL SAFETY DATA SHEET

Document No.: PSK/MSDS/132

Revision No.: 00

Revised Date: 18.06.2018

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

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

HOSPAL-N GLUTARALDEHYDE & OPA NEUTRALIZER

COMPANY

PSK Pharma Private Limited

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RECOMMENDED USE: Rust remover for stainless steel surgical instruments, trays, carts and trolleys

2. COMPOSITION

Ingredient Name	CAS Number	Percentage
Glycine	00056-40-6	< 60%
Proprietary Buffers	-	< 60%

3. HAZARDS IDENTIFICATION

EYE

Dust may irritate eyes

SKIN

Prolonged or repeated exposure may cause slight skin irritation. May cause itching

INGESTION

No hazards anticipated from swallowing small amounts incidental to normal handling operations

INHALATION

Dust may cause irritation to upper respiratory tract (nose and throat)

4. FIRST AID MEASURES

EYE CONTACT

Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical advice immediately.

SKIN CONTACT

Immediately wash skin with plenty of soap and water for at least 15 - 20 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation occurs, get medical advice/ attention.

INHALATION

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

INGESTION

Do not induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Get medical attention.

AGGRAVATED MEDICAL CONDITIONS

None known.

NOTES TO PHYSICIAN

Treat symptomatically

5. FIRE FIGHTING MEASURES

FLASH POINT

Not applicable

AUTO IGNITION TEMPERATURE

No information available

FLAMMABLE LIMITS IN AIR

No information available

SUITABLE EXTINGUISHING MEDIA

Water, carbon dioxide, foam, dry chemical.

FIREFIGHTING MEASURES

Keep people away from fire area. Soak thoroughly with water to cool and prevent re-ignition. Spray surroundings with water to contain fire zone. Fight fire from a safe distance. Remove container from fire area if possible to do so safely. Hand held carbon dioxide or dry chemical extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents.

SPECIAL HAZARD

Container may break due to gas generation in a fire situation. Do not permit dust to accumulate. Dust layers can be ignited by spontaneous combustion or other ignition sources. When suspended in air dust can pose an explosion hazard.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Full protective clothing and approved self-contained breathing apparatus required for fire -fighting personnel.

6. ACCIDENTAL RELEASE MEASURES (SPILL)

METHODS FOR CLEANING UP

Clear non-emergency personnel from area. Remove with shovel. Transfer to suitable and properly labeled containers for disposal.

PERSONAL PRECAUTIONS

Wear suitable protective clothing and gloves.

ENVIRONMENTAL PRECAUTIONS

Avoid runoff to waterways and sewers.

7. HANDLING AND STORAGE

MEASURES FOR SAFE HANDLING

- Avoid generation of dust Do not breathe (dust, vapor, mist, gas)
- Use only with adequate ventilation
- Use respiratory protection where dust may be generated
- Avoid contact with eyes, skin and clothing
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
- Wash thoroughly after handling
- Keep container closed when not in use

STORAGE CONDITIONS

- Store in a dry place
- Store in a cool, well ventilated area
- Keep away from heat, sparks and flame

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

Local exhaust ventilation as necessary

RESPIRATORY PROTECTION

If exposures exceed limits, use appropriate respirator

HAND PROTECTION

Appropriate chemical resistant gloves should be worn.

SKIN AND BODY PROTECTION

Standard work clothing and work shoes.

EYE/FACE PROTECTION

Chemical goggles or a face shield if splashing hazard exists.

OTHER PERSONAL PROTECTION DATA

Eyewash stations / safety showers must be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White colored, odorless powder
Water Solubility	250 g / Litre
pH (solution in water)	Basic
Flash point	Not Applicable
Vapour Pressure	Not Applicable

10 STABILITY AND REACTIVITY

STABILITY

Stable under recommended storage conditions.

CONDITIONS TO AVOID

Avoid temperatures above 100°C. Product decomposes above the melting temperature.

MATERIALS TO AVOID

Avoid contact with oxidizers, acids, bases, halogenated hydrocarbons

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon dioxide, carbon monoxide, and nitrogen oxides can be expected.

HAZARDOUS POLYMERIZATION

None expected under normal conditions.

ADDITIONAL GUIDELINES

None

11. TOXICOLOGICAL INFORMATION

PRINCIPAL ROUTES OF EXPOSURE

Skin, eyes and respiratory tract.

EYE CONTACT

Not expected to cause eye irritation.

SKIN CONTACT

Health injuries are not known or expected under normal use.

INHALATION

No adverse effects expected under ordinary conditions of use.

INGESTION

No hazards anticipated from swallowing small amounts incidental to normal handling operations.

CARCINOGENICITY STATUS

Mutagenicity/Genotoxicity: No mutagenicity or genotoxicity studies have been carried out with this product. This product does not contain any components in concentrations greater than or equal to 0.1% that are listed as known or suspected carcinogens.

ACUTE TOXICITY

Glycine Oral LD50	7930 mg/kg (Rat)
Dermal LD50	No information available
Ingestion	Single dose oral toxicity is considered to be extremely low.
Eye Contact	Not expected to cause eye irritation.
Inhalation LC50	No information available.
Dermal sensitization	Non-sensitizing

Conclusions are drawn from literature sources other than direct testing.

12. ECOLOGICAL INFORMATION

ACUTE TOXICITY

Fishes, *Lepomis macrochirus*, LC50, 96 h, 1000 mg/l
Crustaceans, *Ceriodaphnia dubia*, EC50, 48 h, > 220 mg/l
Algae/aquatic plants, EC50, 72h, > 1000 mg/l.

MOBILITY

Not expected to adsorb on soil

PERSISTENCE AND DEGRADABILITY

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT) Bioaccumulative potential

ULTIMATE BIODEGRADATION

Readily biodegradable.

CHEMICAL FATE INFORMATION

No information available

OTHER INFORMATION

None

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose in a safe manner in accordance with local / national regulations

CONTAMINATED PACKAGING

Do not re-use empty containers

14. TRANSPORT INFORMATION

DOT CLASSIFICATION

Not regulated as hazardous

IDENTIFICATION

Not applicable

SPECIAL PROVISIONS FOR TRANSPORT

Not available.

15. REGULATORY INFORMATION

RISK & SAFETY PHRASES

S 22 Do not breathe dust.

S 24/25 Avoid contact with skin and eyes

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.