# COOMASSIE$^{nano}$ – Protein staining solution

## Identification of the preparation / Substance and of the company

Product Name：PS002-B500ML COOMASSIE$^{nano}$

Catalog Number：PS002-B500ML

Use of the preparation：For laboratory use.

Suitable for use as protein stain for SDS-PAGE

Company identification：BIO-HELIX Co., LTD.

Site：http://www.bio-helix.com

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## Composition / Information on ingredients

Ingredients

| Name | CAS No. | EC No. | Weight % |
|---|---|---|---|
| Phosphoric acid | CAS#7664-38-2 | EC#231-633-2 | 5% |
| Ethanol | CAS#64-17-5 | EC#200-578-6 | 2.5% |

We recommend handling all chemicals with caution.

## Hazards identification

| | |
|---|---|
| Form : Liquid | |
| Principle Routes of Exposure/Potential Health effects | |
| Eyes | May cause eye irritation with susceptible persons. |
| Skin | May cause skin irritation in susceptible persons. |
| Inhalation | May cause irritation of respiratory tract. |
| Ingestion | Ingestion may cause irritation to mucous membranes. |
| Specific effects | |
| Carcinogenic Effects | No information available |
| Mutagenic effects | No information available |
| Reproductive toxicity | No information available |
| Sensitization | No information available |
| Target Organ Effects | No known effects under normal use conditions. |

## First Aid Measures

Ingestion：Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Do not induce vomiting without medical advice.

Inhalation : Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Skin contact : Wash off immediately with plenty of water. If symptoms occur, obtain medical advice.
Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.

## Fire-fighting measures

Suitable Extinguishing Media : Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
Specific hazards arising from the chemical : Not known.

## Accidental release measures

Personal Precautions : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protection equipment.
Environmental Precautions : Prevent further leakage or spillage if safe to do so.
Clean-up Measures : Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

## Handling and storage

Handling : Avoid contact with skin and eyes. Always wear reccommended personal protective equipment.
Storage : Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not store near combustible materials. Keep in properly labeled containers.

## Exposure controls / personal protection

Engineering Measures : Ensure adequate ventilation, especially in confined areas.
Respiratory Protection : In case of insufficient ventilation, wear suitable respiratory equipment.
Hand Protection : Impervious butyl rubber gloves. Nitrile gloves are not recommended. Some brands of Nitrile gloves have breakthrough times of five minutes.
Eye Protection : Safety glasses / goggles. Face mask (in case of spattering).
Skin Protection : Wear safety glasses with side shields (or goggles).
Hygiene Practices : Handle in accordance with good industrial hygiene and safety practice.

## Physical and chemical properties

Physical Properties

Form : Liquid.

Appearance : No information available.

Odor : no data available.

Chemical Properties

| | | |
|---|---|---|
| Form | Liquid | |
| Appearance | No information available | |
| Odor | No data available | |
| Odor Threshold | No data available | |
| Boiling point / boiling range | °C No data available | °F No data available |
| Melting point / melting range | °C No data available | °F No data available |
| flash point | °C >60.0 - <93.0 | °F 140.0 - 199.4 |
| Autoignition Temperature | °C No data available | °F No data available |
| Evaporation rate | No data available | |
| Flammability (solid, gas) | No data available | |
| Oxidizing properties | No information available | |
| Water solubility | miscible | |
| Upper explosion limit | No data available | |
| Lower explosion limit | No data available | |
| Partition coefficient: | No data available | |

n-octanol/water

| | | |
|---|---|---|
| Vapor Pressure | No data available | |
| vapor density | No data available | |
| Viscosity | No data available | |
| pH value | No data available | |

## Stability and reactivity

| | |
|---|---|
| Stability | Stable under normal conditions. |
| Materials to avoid | Strong acids. Strong oxidizing agents. |
| Possibility of hazardous reactions | Hazardous reaction has not been reported |
| Hazardous decomposition products | Hazardous decomposition products formed under fire conditions. Carbon oxides. |
| polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | None under normal processing. |

## Toxicological information

Acute toxicity

| Chemical Name | $LD_{50}$ (oral,rat/mouse) | $LD_{50}$ (dermal,rat/rabbit) | LC50 (inhalation,rat/mouse) |
|---|---|---|---|
| Ethanol | 7060 mg/kg Oral $LD_{50}$ | no data available | 64,000 ppm/4hr |

Principle Routes of Exposure/Potential Health effects

| | |
|---|---|
| Eyes | May cause eye irritation with susceptible persons. |
| Skin | May cause skin irritation in susceptible persons. |
| Inhalation | May cause irritation of respiratory tract. |
| Ingestion | Ingestion may cause irritation to mucous membranes. |
| Carcinogenic effects | None. |
| Mutagenic effects | None. |
| Reproductive toxicity | None. |
| Sensitization | None. |

## Ecological information

Ecotoxicity : The environmental impact of this product has not been fully investigated.

Mobility : see log Pow.

Biodegradation : No information available.

Bioaccumulation : No information available.

| Chemical Name | Freshwater Algae Data | Water Flea Data | Freshwater Fish Species Data | Microtox Data | log Pow |
|---|---|---|---|---|---|
| Ethanol | - | Daphnia magna $EC_{50}$=10800 mg/L (24h)<br>Daphnia magna $EC_{50}$=2 mg/L (48 h)<br>Daphnia magna $LC_{50}$ 9268 - 14221 mg/L (48 h) | - | - | logPow-0.32 |

## Disposal considerations

Dispose of contents/containers in accordance with local regulations.

## Transport information

| | |
|---|---|
| IATA | |
| Proper Shipping Name | No dangerous good in sense of these transport regulations. |
| Hazard Class | None |
| Subsidiary class | None |
| Packing group | None |
| UN-No | None |
| Environmental hazards | None |

## Other information

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution.

Since Bio-Helix Co., Ltd. cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

The information in this SDS does not constitute a warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.


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