

5X Concentrate COOMASSIE^{nano} – Protein staining solution

Identification of the preparation / Substance and of the company

Product Name: 5X Concentrate COOMASSIE^{nano} – Protein staining solution

Catalog Number: PS002-L05X

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 E-mail: info@bio-helix.com

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

www.bio-helix.com

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.



Material Safety Data Sheet



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.



Material Safety Data Sheet



Form Liquid

Appearance No information available

Odor No data available
Odor Threshold No data available

flash point °C > 60.0 - < 93.0 °F 140.0 - 199.4

Evaporation rate No data available Flammability (solid, gas) No data available

Oxidizing properties No information available

Water solubility miscible

Upper explosion limit

Lower explosion limit

No data available

Partition coefficient:

No data available

n-octanol/water

Vapor Pressure

vapor density

Viscosity

pH value

No data available

No data available

No data available

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 LD₅₀ (oral,rat/mouse) LD₅₀ (dermal,rat/rabbit) LC50 (inhalation,rat/mouse)

Ethanol 7060 mg/kg Oral LD₅₀ 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 Freshwater Algae Water Flea Data Freshwater Fish Microtox Data log Pow

Name Data Species Data

Ethanol - Daphnia magna - - logPow-

 $EC_{50} = 10800 \text{ mg/L}$ 0.32

(24h)

Daphnia magna $EC_{50}=2$ mg/L (48 h) Daphnia magna LC_{50} 9268 - 14221 mg/L (48 h)

Disposal considerations

Dispose of contents/containers in accordance with local regulations.

Transport information

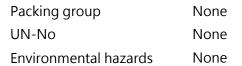
IATA

Proper Shipping Name No dangerous good in sense of these transport regulations.

Hazard Class None Subsidiary class None



Material Safety Data Sheet



Regulatory information

SARA (Superfund and Reauthorization Act)

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity:

None of the ingredients are listed.

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.

