

Phosphorus Liqui-UV®**SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION**

Product Identification: Phosphorus Liqui-UV®
Ref No. 0830, 0830-125, S0830-750, etc.

Test kit contains Phosphorus Reagent and Phosphorus Standard.

Company Identification: Stanbio Laboratory
1261 North Main Street
Boerne, TX 78006

Telephone Number: (830) 249-0772
Website: <http://www.ekfusa.com>

SECTION 2 – HAZARDS IDENTIFICATION

Routes of Exposure: Only when used as directed.

Classification system: In compliance with OSHA's Hazard Communication Standard (29CFR 1910.1200), a chemical mixture is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen. The product contains hazardous material(s) in excess of these amounts; therefore, precautions adequate for the pure form of the material(s) are presented here.

National Fire Protection Association (NFPA) ratings (scale 0-4):

Health=0
Fire=0
Reactivity=0

Hazard Overview

Health: Minimal risk if used as directed.

Fire: Not considered a fire hazard.

Reactivity: Minimal risk.

Special Hazards: None determined.

Carcinogenicity information

OSHA (Occupational Safety and Health Administration): None of the ingredients is listed.

NTP (National Toxicology Program): None of the ingredients is listed.

IARC (International Agency for Research on Cancer): None of the ingredients is listed.

SECTION 3 – PRODUCT COMPOSITION

The test kit is composed of Phosphorus Reagent and Phosphorus Standard.

Phosphorus Reagent/0831 (The reagent contains by percentage the following amounts of chemicals)

| <u>Chemical Name</u> | <u>CAS No.</u> | <u>Concentration</u> |
|----------------------|----------------|----------------------|
| Sulfuric Acid | 7664-93-9 | 1.00% |

Phosphorus Standard/0832 (The reagent contains by percentage the following amounts of chemicals)

Phosphorus Liqui-UV®

Chemical Name _____ CAS No. _____ Concentration _____
None determined to be hazardous.

SECTION 4 – FIRST AID MEASURES

After inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

After skin contact: Flush skin with water for 15 minutes. Wash affected area thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention immediately.

After eye contact: Flush eyes including under the eyelids with water for 15 minutes. Get medical attention immediately.

After swallowing: Do not induce vomiting. Give large quantities of milk or water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing agents: Use dry chemical, foam or carbon dioxide. Use water spray or fog to flooding amounts to cool containers. Avoid breathing vapors.

Protective equipment: Wear a self-contained breathing apparatus and protective clothing.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Safe work practices: Disposal should be made in accordance with existing disposal practices employed for infectious waste.

Measures for environmental protection: Prevent liquid and vapor from entering sewage system, storm drains, surface waters, and soil.

Measures for cleaning/ collecting: Absorb with non-reactive absorbent such as earth, sand or vermiculite. Neutralize Phosphorus Reagent with sodium bicarbonate or soda ash. After absorption, scoop up and place into a suitable container for proper disposal. Flush area of spill with dilute soda ash solution and discard to sewer. Dispose of in a manner consistent with federal, state and local regulation.

SECTION 7 – HANDLING AND STORAGE

Information for safe handling: Refer to the package insert or product label for additional information on storage conditions.

Information about protection against explosions and fires: No special measures required.

Requirements to be met by storerooms and receptacles: Refer to the package insert or product label for additional information on storage conditions.

Information about storage in one common storage facility: Store product in original packaging.

Further information about storage conditions: Protect from heat and direct sunlight.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Occupational Exposure Limits: The product does not contain any hazardous ingredients with occupational exposure limits established by OSHA, ACGIH, or NIOSH.

Phosphorus Liqui-UV®

General protective and hygienic measures: Always maintain good housekeeping. Do not eat, drink or store food and beverages in areas where chemicals are used. Wash hands before breaks and at the end of the work shift.

Breathing equipment: Use adequate protection to prevent inhalation, as well as good ventilation.

Hand protection: Wear necessary gloves when handling.

Eye protection: Wear appropriate safety glasses or other protective eyewear.

Body protection: Wear apron, laboratory coat or appropriate protective clothing when handling.

General notes: Reagents contain sodium azide as preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compound on percussion. Flush drain with copious amounts of water to prevent build up. Exercise caution when using and disposing of reagents.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid.

Color: Not applicable

Odor: Not identified.

Boiling point/Boiling range:

Sulfuric Acid - 330°C / NA.

Flash point: NA

Auto igniting: Not self-igniting.

Danger of explosion: Not applicable.

Density at 20°C (68°F): Not applicable.

Solubility in/Miscibility with Water: Not applicable.

PH-value at 20°C (68°F): Not applicable.

Water: Not applicable.

SECTION 10 – STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications

Dangerous reactions: No dangerous reactions known.

Stability: Stable at room temperature in closed containers under normal storage and handling.

Incompatibility: Avoid oxidizing materials.

Hazardous Polymerization: Will not occur.

Dangerous reactions: No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

LD50/50LC values for hazardous ingredients per OSHA criteria:

Ingredients (100% pure substance/s)

Sulfuric Acid - LD50 (oral rat): 2140 mg/kg

Primary toxicological effects of the final product

Skin irritation: contact to skin is corrosive, symptoms of redness, pain and severe burn can occur.

Eye irritation: contact to eyes is corrosive, splashes can cause blurred vision, redness, pain and severe tissue burns.

Sensitization: No sensitizing effects known.

Phosphorus Liqui-UV®

Target organs/systems: Lungs.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity: Further details: no data available

Persistence and degradability: Further details: no data available

Bioaccumulative potential: Partition coefficient: n-octanol/water: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment: no data available

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 – TRANSPORT INFORMATION

DOT Class - Not restricted for transportation.

IMDG Class - Marine pollutant: No, not restricted for transportation.

ICAO/IATA Class - Not restricted for transportation.

SECTION 15 – REGULATORY INFORMATION

SARA (Superfund Amendments and Reauthorization Act of 1986 – USA):

Section 302/304 (40CFR355.40): The product does not contain listed substances.

Section 313 (40CFR372.65): The product does not contain listed substances.

California Proposition 65 (USA)

Chemicals known to cause cancer: Sulfuric Acid.

Chemicals known to cause female reproductive toxicity: None of the ingredients is listed.

Chemicals known to cause male reproductive toxicity: None of the ingredients is listed.

Chemicals known to cause developmental reproductive toxicity: None of the ingredients is listed.

Markings according to European guidelines: observe the general safety regulations when handling chemicals. The product does not require any hazard warnings according the respective European Community (EC) Directives.

SECTION 16 – OTHER INFORMATION

The information contained in this SDS is believed to be accurate and represents the best information currently available. Stanbio Laboratory makes no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should determine suitability of the information contained in SDS for their particular purpose.

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