

**1. PRODUCT AND COMPANY IDENTIFICATION**

Trade Name: meta-Phosphoric acid  
 Item Number: MPA-2G  
 Supplier: BioAssay Systems  
 3191 Corporate Place  
 Hayward, CA 94545. USA  
 Tel: 510-782-9988; Fax: 510-782-1588  
 Email: info@bioassaysys.com

**2. HAZARDS IDENTIFICATION**

**GHS Classification**

Acute toxicity, Oral (Category 4), H302  
 Skin corrosion (Category 1A), H314  
 Serious eye damage (Category 1), H318  
 Acute aquatic toxicity (Category 3), H402  
 Chronic aquatic toxicity (Category 3), H412

**GHS Label elements, including precautionary statements**

**Pictogram**

Signal word: Danger

**Hazard statements**

H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P280 Wear protective gloves/clothing and eye/face protection.  
 P302 + P352: *If on skin:* Wash with plenty of soap and water.  
 P304 + P340: *If inhaled:* Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305 + P351 + P338: *If in eyes:* Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a doctor/ physician if you feel unwell.  
 P332 + P313: *If skin irritation occurs:* Get medical advice/ attention.  
 P337 + P313: *If eye irritation persists:* Get medical advice/ attention.



**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product contains the following component  
 Two (2) Grams meta-Phosphoric Acid (CAS#: 37267-86-0)

**4. FIRST AID MEASURES**

**Eye:** Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

**Skin:** Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse.

**Inhalation:** Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

**Ingestion:** Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

**5. FIRE FIGHTING MEASURES**

**Extinguishing media:** water spray, carbon dioxide, dry chemical powder or appropriate foam.

**Special firefighting procedures:** wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual fire and explosion hazards:** emits toxic fumes under fire conditions.

**6. ACCIDENTAL RELEASE MEASURES**

Keep unnecessary people away; isolate hazard area and deny entry. Small spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal. Do not flush to sewer or waterways. Prevent release to the environment if possible.

**7. HANDLING AND STORAGE**

Keep receptacles tightly sealed and store according to the instructions in the assay protocol.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Follow standard laboratory safety procedures, including wearing chemical safety goggles, face shield, gloves, NIOSH approved respiratory protection and protective clothing. Wash and dry hands.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- a) Appearance Form chips. Color: colorless
- b) Odor no data available
- c) Odor Threshold no data available
- d) pH 2 at 33 g/l
- e) Melting point/freezing point Melting point/range: 200 °C (392 °F)
- f) Initial boiling point and boiling range: 600 °C (1,112 °F) at 1,351 hPa (1,013 mmHg)
- g) Flash point not applicable
- h) Evaporation rate no data available
- i) Flammability (solid, gas) no data available
- j) Upper/lower flammability or explosive limits: no data available
- k) Vapor pressure: 0.04 hPa (0.03 mmHg) at 20 °C (68 °F)
- l) Vapor density no data available
- m) Relative density 2.000 g/cm3
- n) Water solubility completely miscible
- o) Partition coefficient octanol/water: no data available
- p) Auto-ignition temperature no data available
- q) Decomposition temperature: no data available
- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available

**10. STABILITY AND REACTIVITY**

**Thermal Decomposition:** no decomposition if used according to specifications. **Dangerous Products of Decomposition:** none. **Dangerous Reactions:** none.

**11. TOXICOLOGICAL INFORMATION**

The toxicological effects of this product have not been thoroughly studied. We recommend handling all chemicals with caution.

meta-Phosphoric Acid - Acute toxicity, no data available; Inhalation: no data available; Dermal: no data available; Skin corrosion/irritation: no data available; Serious eye damage/eye irritation: no data available.

**12. ECOLOGICAL INFORMATION**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

**13. DISPOSAL INFORMATION**

Dispose in accordance with local, state or national regulations.

**14. TRANSPORT INFORMATION**

Proper Shipping Name: Chemical Kit  
 DOT (US) - Not dangerous goods.  
 IMDG - Not dangerous goods.  
 IATA - Not dangerous goods.

**Additional Transport Information:** transport in accordance with local, state and national regulations.

**15. REGULATORY INFORMATION**

**OSHA Hazards:** Target Organ Effect.  
**SARA 311/312 Hazards:** Chronic Health Hazard.

**16. OTHER INFORMATION**

The above information is believed to be accurate, but does not purport to be all inclusive and shall be used only as a guide. BioAssay Systems makes no warranty, express or implied, and assumes no responsibility as to the accuracy or suitability of such information or application to the User's intended purpose or for consequences of its use. The Users should make independent decisions regarding the completeness of information based on all sources available.