

SECTION 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

SECTION 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.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product contains the following component

Two (2) Grams meta-Phosphoric Acid (CAS#: 37267-86-0)

SECTION 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.

SECTION 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.

SECTION 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.

SECTION 7. HANDLING AND STORAGE

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

SECTION 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.

SECTION 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

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 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.

SECTION 12. ECOLOGICAL INFORMATION

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

SECTION 13. DISPOSAL INFORMATION

Dispose in accordance with local, state or national regulations.

SECTION 14. TRANSPORT INFORMATION

Proper shipping name: Corrosive solid, acidic, inorganic, n.o.s. (Metaphosphoric acid)

DOT (US) – UN3260; Class: 8; Packing group: III.

IMDG – UN3260; Class: 8; Packing group: III. Marine pollutant: Yes.

IATA – UN3260; Class: 8; Packing group: III.

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

SECTION 15. REGULATORY INFORMATION

OSHA Hazards: Target Organ Effect.

SARA 311/312 Hazards: Chronic Health Hazard.

SECTION 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.

