



**MATERIAL SAFETY DATA SHEETS:
POTASSIUM HYDROGEN PHTHALATE**

REV: 3

Page: 1 of 3

Approved by:

Zoralya Dunaway

June 22, 2010

SECTION 1. PRODUCT IDENTIFICATION

Name: Potassium Hydrogen Phthalate
Synonym: KHP Primary Standard, 1,2-Benzenedicarboxylic Acid Monopotassium Salt; Potassium Biphthalate; Potassium Acid Phthalate; Phthalic Acid, Potassium Salt
Manufacturer: Nacalai Tesque (Japan)
Catalog Number: 630-00635-01 (Shimadzu), 44936-52 (Nacalai Tesque)

Additional Information Contact: 800.477.1227
24 Hour Emergency Contact: 410-768-8155 (AIRPACK; 500 McCormick Dr.; Glen Burnie, MD 21061)

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number: 877-24-7
Molecular Weight: 204.23
Chemical Formula: HOOC-C₆H₄COOK
Hazardous: YES

SECTION 3. PRODUCT USE

This product is specifically for use in the TC channel of the TOC-500, TOC-5000 Series, TOC-V Series and TOC-4000 Series of Shimadzu Total Organic Carbon analyzers. Refer to the appropriate instruction manual for directions on proper use. Keep tightly sealed in a cool, dry, place. Wear appropriate protective clothing and eye protection: GOGGLES; LAB COAT; GLOVES. Use

SECTION 4. PHYSICAL DATA

Appearance: Colorless/white crystals Odor: Odorless.
Melting Point: 295C – 300C Boiling Point: NA
Density: NA Vapor Pressure: NA
pH: 4.0; 0.05M Aqueous Solution Specific Gravity: 1.64
Solubility: 25g/100ml cold water

SECTION 5. HAZARDS IDENTIFICATION

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.

Health Risk: None
Flammability: Slight
Reactivity: None
Contact Risk: Slight
Storage Risk: General Storage

SECTION 6. TOXICITY DATA

RTECS #: CZ4326000
ORL-RAT LD50: >3200 mg/kg SKN-GPG LD50: >1 gm/kg
Environmental Fate: None found
Environmental Toxicity: None found

SECTION 7. HEALTH HAZARD DATA

Inhalation: Slight acidity could cause irritation to respiratory tract resulting in coughing and sore throat.
Ingestion: Large doses may produce nausea, vomiting, and abnormal sensations in hands and feet. Slight acidity could result in irritation to the mucous membranes.
Skin Contact: Contact may cause irritation, redness, and pain.
Eye Contact: May cause eye irritation.

SECTION 8. FIRST-AID MEASURES

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Approved by:

Zoraly Anderson

June 22, 2010

Ingestion: Give large amounts of water to drink if conscious. Never give anything by mouth to an unconscious person. **GET MEDICAL ATTENTION.**

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Contact a physician if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Contact a physician if irritation persists.

SECTION 9. FIRE FIGHTING MEASURES

Fire/ Explosion Hazard: Organic solid. Fire is possible at elevated temperatures or by contact with an ignition source. In the presence of an ignition source, high levels of fine dust dispersed in air is a potential dust explosion hazard.

Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information: In the event of a fire, wear full protective clothing and self-contained breathing apparatus capable of operation in positive pressure mode.

SECTION 10. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition and ventilate area. Wear appropriate personal protective equipment. Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container

SECTION 11. STABILITY AND REACTIVITY

Material Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatible Materials: Nitric Acid. Strong oxidizing agents.

Conditions to Avoid: Heat, ignition sources, and incompatible materials

SECTION 12. DISPOSAL

Dispose of container and unused contents in accordance with Federal, State, and Local requirements. State and Local disposal regulations may differ from Federal regulations and can be more stringent, but will never be less strict.

SECTION 13. OTHER INFORMATION

| Chemical Inventory Status - Part 1 | | | | |
|---|------|-----|-------|-----------|
| Ingredient | TSCA | EC | Japan | Australia |
| Potassium Hydrogen Phthalate (877-24-7) | Yes | Yes | Yes | Yes |

| Chemical Inventory Status - Part 2 | | | | |
|---|-------|-----|------|-------|
| Canada | | | | |
| Ingredient | Korea | DSL | NDSL | Phil. |
| Potassium Hydrogen Phthalate (877-24-7) | Yes | Yes | No | Yes |

| Federal, State & International Regulations - Part 1 | | | | |
|---|----------|-----|----------|------------|
| Ingredient | SARA 302 | | SARA 313 | |
| | RQ | TPQ | List | Chem. Cat. |
| Potassium Hydrogen Phthalate (877-24-7) | No | No | No | No |

| Federal, State & International Regulations - Part 2 | | | |
|---|--------|--------|------|
| Ingredient | CERCLA | RCRA | TSCA |
| | | 261.33 | 8(d) |
| Potassium Hydrogen Phthalate (877-24-7) | No | No | No |



**MATERIAL SAFETY DATA SHEETS:
POTASSIUM HYDROGEN PHTHALATE**

REV: 3

Page: 3 of 3

Approved by:

Zoraly S. Sanchez

June 22, 2010

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312:
Acute: Yes Chronic: No Fire: No Pressure: No
Australian Hazchem Code: None Found.
Poison Schedule: None Found
Transportation Information: Not Regulated

The information provided above is believed to be correct, but does not purport to be all inclusive and it must serve only as a guide. Shimadzu shall not be held liable for any damage resulting from handling or contact with the above product. Users should make their own determinations regarding the suitability of this information for their particular purposes