

#### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTIFIER : Phosphate pH Standard Solution. pH4.01  
MANUFACTURER : FUJI SEIMITSU DENKI Co., LTD.  
SUPPLIER : FUJI SEIMITSU DENKI Co., LTD..  
ADDRESS : 15-14, Meguroi 2-chome, Meguro-ku, Tokyo, 153-0063, Japan  
TELEPHONE NUMBER:03-3716-3441  
EMERGENCY TELEPHONE NUMBER: 03-3716-3441

#### 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Not classifiable.  
HAZARD STATEMENTS : May be harmful if inhaled and ingested.  
May cause eye and skin irritation.  
PRECAUTIONARY STATEMENTS : Not available

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture  
CHEMILCAL IDENTITY CONTENT  
Potassium hydrogen phthalate 0.04955mol/l  
FORMULA : C<sub>6</sub>H<sub>4</sub>(COOK)(COOH)  
MOLECULAR WEIGHT : 204.22  
CAS NUMBER : 877-24-7  
TSCA INVENTORY : Listed  
EINECS No. : 2128894

#### 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

INHALATION : Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.

SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT : Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

INGESTION : Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

#### 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Not combustible. Use extinguishing media appropriate to the surrounding fire.

FIRE & EXPLOSION HAZARDS : Toxic and irritating, fumes or smoke may be emitted.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS : Firemen should wear normal protective equipment(full bunker gear)and positive-pressure self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS : Prevent spills from entering sewers, watercourses or low areas.

METHODS FOR CLEANING UP : Do not touch spilled material without suitable protection(See section 8). Take up spilled material with ashes or other absorbents. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

#### 7. HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING : Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection.

CONDITIONS FOR SAFE STORAGE : Store away from sunlight in well-ventilated dry place at room temperature (preferably cool place). Keep container tightly closed.

INCOMPATIBILITIES : Not available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES : Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.

VENTILATION : Local Exhaust ; Necessary, Mechanical(General) ; Necessary Special; Closed system is recommended.

INDIVIDUAL PROTECTION MEASURES ;

Respiratory protection : NIOSH/MSHA or European Standard EN149 approved respirator

Hand protection : Chemical resistant gloves

Eye protection : Safety glasses(goggles)

Skin protection : Protective clothing

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Colorless clear liquid  
ODOUR : None  
pH : 4.01 (at 25 °C = 77° F)  
MELTING POINT : Approx. 0°C  
INITIAL BOILING POINT : Approx. 100°C  
FLASH POINT : Not available  
FLAMMABILITY (solid, gas) : ----  
EXPLOSIVE LIMITS : Not available  
VAPOR PRESSURE : Not available  
SPECIFIC GRAVITY : Not available  
SOLUBILITY IN ;  
WATER : Miscible

PARTITION COEFFICIENT : Not available  
DECOMPOSITION TEMPERATURE : Not available

#### 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY : Stable under recommended storage conditions.  
CONDITIONS TO AVOID : Sunlight, heat

#### 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY(oral/dermal/inhalation) : Not available as the mixture  
(1); LD50(orl, rat): 3200mg/kg(RTECS)  
SKIN CORROSION/IRRITATION : Not available as the mixture  
EYE DAMAGE/EYE IRRITATION : Not available as the mixture  
RESPIRATORY OR SKIN SENSITIZATION : Not available as the mixture and components  
GERM CELL MUTAGENICITY : Not available as the mixture and components  
TOXIC TO REPRODUCTION : Not available as the mixture and components  
STOST-SINGLE EXPOSURE : Not available as the mixture and components  
STOST-REPEATED EXPOSURE : Not available as the mixture and components  
ASPIRATION TOXICITY : Not available as the mixture and components  
CARCINOGENICITY : Not available as the mixture and components  
ADDITIONAL INFORMATION ;  
NTP : Not listed  
IARC : Not listed  
OSHA : Not listed  
ACGIH : Not listed

12. ECOLOGICAL INFORMATION

ECOTOXICITY : Not available  
PERSISTENCE AND DEGRADABILITY : Not available  
BIOACCUMULATION POTENTIAL : Not available  
MOBILITY IN SOIL : Not available  
OTHER ADVERSE EFFECTS : Not available

13. DISPOSAL CONSIDERATION (INCLUDING CONTAINER)

Any disposal practice must be in compliance with country, local, state, and federal laws and regulations ( contact country, local or state environmental agency for specific rules ).

After contents are completely removed, dispose of its container at hazardous or special waste collection point. (in accordance with local/regional/national/international regulation).

14. TRANSPORT INFORMATION

IATA : Not Restricted.  
MARINE POLLUTANT : No  
DOT(Department of Transportation) : Not a Hazardous Material for DOT shipping.

15. REGULATORY INFORMATION

US REGULATIONS ;  
(1),(2); EPA : CERCLA RQ= Not listed  
EPCRA TPQ= Not listed  
OSHA : TQ= Not listed  
NFPA : HR= health-0, flam.-0, react.-0  
HMIS : HR= health-0, flam.-0, react.-0

16. OTHER INFORMATION

No specific notes