Part Number K9084LM

Product Name (Chemical Name, Trade Name, etc.)  Buffer solution for calibration (pH7)

Composition/Information on Ingredients
   Single Product/Mixture Product:  Mixture Product
   Chemical Name (Synonyms):
      (1) Potassium dihydrogenphosphate
      (2) Disodium hydrogenphosphate
   Ingredient /Content:  Total 250ml of (1) 0.025mol/kg Potassium dihydrogenphosphate +
                        (2) 0.025mol/kg Potassium dihydrogenphosphate,  6 bottles
   Formula:  (1) KH$_2$PO$_4$  (2) Na$_2$HPO$_4$
   CAS No.:  (1) 7778-77-0  (2) 7558-79-4

GHS Classification:  Not Classified

Other Information:  Refer to next page “Phosphate equimolal pH Standard solution, pH6.86” SDS
Safety Data Sheet

1. Product and company identification
   Product name : Phosphate equimolar pH standard solution, pH 6.86
   Name of manufacturer : KANTO CHEMICAL CO., INC.
   Address : 2–1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103–0022, Japan
   Name of section : Reagent division, catalog and products information section
   Telephone number : +81-3-6241-1090
   Facsimile number : +81-3-3241-1047
   Mail address : BC32@gms.kanto.co.jp
   SDS No. : 32799

2. Summary of danger and Hazard
   GHS classification
   Physical and chemical hazard
     Flammable liquids : Out of category
     Pyrophoric liquids : Out of category
   Human health hazard
     Acute toxicity(oral) : Out of category
     Acute toxicity(dermal) : Out of category
     Skin corrosion • Irritation : Out of category
     Serious eye damage • Eye irritation : Out of category
   Specific target organ systemic toxicity (single exposure) : Out of category
   Specific target organ systemic toxicity (repeated exposure) : Out of category
   Environmental hazard
     Hazardous to the aquatic environment—acute hazard : Out of category
     Hazardous to the aquatic environment—chronic hazard : Out of category

3. Composition/Information on ingredients
   Substance/Mixture : Mixture
   Chemical name or commercial name
   Ingredients and composition : Water solution contains 0.34% (0.025mol/l) Potassium dihydrogen phosphate, 0.35% (0.025mol/l) Disodium hydrogen phosphate
   Chemical formula : Potassium dihydrogen phosphate KH2PO4
Disodium hydrogenphosphate Na2HP04

CAS No.  
Potassium dihydrogenphosphate 7778-77-0
Disodium hydrogenphosphate 7558-79-4

TSCA Inventory  
Potassium dihydrogenphosphate Registered
Disodium hydrogenphosphate Registered

EINECS No.  
Potassium dihydrogenphosphate 2319134
Disodium hydrogenphosphate 2314487

4. First aid measures
   Inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.
   Skin contact : Wash the affected areas under running water.
   Eye contact : Wash the affected areas under running water.
   Ingestion : Give the victim water immediately.

5. Fire fighting measures
   Extinguishing media : This product is noncombustible.
   Prohibited extinguishing media : None
   Particular fire fighting : Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.

6. Accidental release measures
   Cautions for personnel : If necessary, wear proper protective equipment.
   Cautions for environment : Nothing particular
   Removal measure : Absorb spill with paper or cloth.

7. Cautions of handling and storage
   Handling
   Engineering measures : Avoid contact with skin.
   Storage
   Adequate storage condition : Store in a dark, cool place and tightly closed.
   Safety adequate container materials : Glass, polyethylene, polypropylene

8. Exposure control/Personal protection
   Engineering measures : Install a local ventilation system under dense vapor or dusty condition.
   Control parameters
   ACGIH(2009) : Not established
   Protective equipment
   Respiration protective equipment : Not necessary
   Hands protective equipment

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9. Physical and chemical properties
   Appearance : Liquid
   Color : Colorless
   Odor : Odorless
   pH : 6,86
   Boiling point : Approx. 100°C
   Melting point : Approx. 0°C
   Flash point : Noncombustible
   Specific gravity : Approx. 1g/ml(20°C)
   Solubility
   Solubility in solvents : Water : Freely soluble

10. Stability and reactivity
   Stability : Stable under normal usage.
   Incompatible conditions : Light, heat

11. Toxicological information
   Acute toxicity : Oral : Out of category
                   Dermal : Not possible to classify because of insufficient data.
                   Inhalation(vapor) : Not possible to classify because of insufficient data.
                   Inhalation(dust, mist) : Not possible to classify because of insufficient data.
                   If swallowed a large dose, may cause nausea.
                   (as Disodium hydrogenphosphate)
                   rat oral LD50>2000mg/kg
                   (as Potassium dihydrogen phosphate)
                   mouse oral LD50=1700mg/kg
   Skin corrosiveness : Out of category
                        The solution has no skin irritation.
   Irritation to skin, eyes : Out of category
                            The solution has slight irritation of eyes, but the classification is set to out of category.
   Respiratory sensitization or Skin sensitization : Respiratory sensitization : Not possible to classify because of insufficient data.
                                                Skin sensitization : Not possible to classify because of insufficient data.
   Mutagenicity : Not possible to classify because of insufficient data.
   Carcinogenic effects : Not possible to classify because of insufficient data
   Effects on the reproductive system : Not possible to classify because of insufficient data.
Specific target organ systemic toxicity single exposure
  : Out of category
  Potassium dihydrogen phosphate and disodium hydrogen phosphate are permitted to be used for food additives and they do not have particular human health hazards.

Specific target organ systemic toxicity repeated exposure
  : Out of category
  Potassium dihydrogen phosphate and disodium hydrogen phosphate are permitted to be used for food additives and they do not have particular human health hazards.

Aspiration hazard : Not possible to classify because of insufficient data.

12. Ecological information

Ecotoxicity
  Fish toxicity : Acute aquatic toxicity : Out of category
  Chronic aquatic toxicity : Out of category
  Rediualility and degradability : Not available
  Mobility : Not available

13. Disposal consideration

Residual disposal : Dilute the chemical with a large amount of water and flush in a drain after confirming pH of the solution. Or entrust approved waste disposal companies with the disposal.

Containers : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

UN class : It is not regulated under UN regulations.

15. Regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

References
  Encyclopaedia Chemica, Kyoritsu Shuppan Co., Ltd. (1963)

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the product carefully. The information is intended to ordinary usage, in case of particular handleings, conduct appropriate safety measurements. The information herein is only provision of information, and it does not represent a guarantee the properties of the product. The Safety Data Sheet (SDS) is prepared based on JIS Z7253, and it has the same required elements on the Material Safety Data Sheet (MSDS) which is prepared based on JIS Z7250:2010.

Kanto Chemical Co., Inc.