1 Identification of the substance/mixture and of the company/undertaking

• Product identifier
  • Trade name: L 4798 / pH=4,01
  • Description: Standard buffer solution pH 4.01 (25 °C)
  • Product code: scho0028
  • Application of the substance / the preparation: Calibration solution
• Manufacturer/Supplier:
  SI Analytics GmbH
  Hattenbergstr. 10
  55122 Mainz
  Deutschland
  Tel.: +49 6131 66-5111

  • Further information obtainable from: E-Mail: msds@si-analytics.com
  • Emergency telephone number: +49 89 19240 (Giftnotruf München)

2 Hazards identification

• Classification of the substance or mixture
  • Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void

• Label elements
  • Labelling according to EU guidelines:
    The mixture is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU” as issued in the latest valid version.
  • Risk phrases: none
  • Safety phrases: none

3 Composition/information on ingredients

• Chemical characterization: Mixtures
  • Description:
    Mixture, consisting of the following components:
    Water, potassium hydrogenphthalate
  • Dangerous components: Void
  • Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

• Description of first aid measures
  • After inhalation: Supply fresh air.
  • After skin contact:
    Wash off with water.
    Remove contaminated clothes.
  • After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  • After swallowing: Seek medical advice if you feel unwell.

5 Firefighting measures

• Extinguishing media
  • Suitable extinguishing agents: The product is not flammable. Extinguishing agent to suit environment.

(Contd. on page 2)
6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures
  No special measurements required when handled properly.
• Environmental precautions: Do not allow to enter sewers/ surface or ground water.
• Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

• Handling:
  No special precautions are necessary if used correctly.
• Information about fire - and explosion protection: No special measures required.
• Conditions for safe storage, including any incompatibilities
  • Storage: Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
  • Information about storage in one common storage facility: Not required.
• Further information about storage conditions: Store at room temperature (15-25 °C).

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.
• Control parameters
  • Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  • Additional information: The lists valid during the making were used as basis.
• Exposure controls
  • Personal protective equipment:
  • General protective and hygienic measures:
    - Avoid contact with the eyes and skin.
    - Change contaminated clothing.
    - Wash hands before breaks and at the end of work.
  • Respiratory protection: Not required.
  • Protection of hands: Not required.
  • Eye protection: Safety glasses

9 Physical and chemical properties

• Information on basic physical and chemical properties
  • General Information
  • Appearance:
    - Form: Fluid
    - Colour: Colourless
    - Odour: Odourless
  • pH-value at 25°C: 4.01
  • Change in condition
    - Melting point/Melting range: -1.6°C
    - Boiling point/Boiling range: 100.7°C
  • Flash point: Not applicable.
Safety data sheet
ing accordance to Regulation (EC) No 1907/2006 (REACH)

Trade name: L 4798 / pH=4,01

10 Stability and reactivity
- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information
- Information on toxicological effects
  - Acute toxicity:
    - Primary irritant effect:
      - on the skin: No irritant effect.
      - on the eye: No irritating effect.
    - Sensitization: No sensitizing effects known.

12 Ecological information
- Toxicity
- Aquatic toxicity: No further relevant information available.
- Additional ecological information:
  - General notes:
    - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
    - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations
- Waste treatment methods
  - Recommendation
    - Must not be disposed together with household garbage. Do not allow product to reach sewage system.

  - European waste catalogue
    - 06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES
    - 06 03 00 wastes from the MFSU of salts and their solutions and metallic oxides
    - 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

  - Uncleaned packaging:
    - Recommendation:
      - Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
      - Packagings that may not be cleansed are to be disposed of in the same manner as the product.
      - Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information
- Land transport ADR/RID (cross-border) No hazardous material as defined in the directives.
- Maritime transport IMDG: No hazardous material as defined in the directives.
- Marine pollutant: No
15 Regulatory information

- **Chemical safety assessment**: A Chemical Safety Assessment has not been carried out.

16 Other information

- **Abbreviations and acronyms**:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
  - ICAO: International Civil Aviation Organization
  - ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)