Date of issue: 20/12/2017

Safety Data Sheet

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

Product identifier:

Product name: Magnesium hydrogen phosphate,3-hydrate

Product code(SDS NO): 4682E-1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku,Osaka 540-0029,JAPAN

Division: Safety Management Dept. of Chemicals

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

e-mail address: kagakuhinanzenkanri@kishida.co.jp

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name:Magnesium hydrogen phosphate,3-hydrate

Content(%):97(min)

Chemical formula:$MgHPO_4 \cdot 3H_2O$

Chemicals No, Japan:1-387

CAS No.:7782-75-4

MW:174.33

Note : The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures
- Extinguishing media
  - Suitable extinguishing media
    - Use appropriate extinguishing media suitable for surrounding facilities.
- Specific hazards arising from the substance or mixture
  - Containers may explode when heated.
  - Fire may produce irritating, corrosive and/or toxic gases.
- Advice for firefighters
  - Specific fire-fighting measures
    - Evacuate non-essential personnel to safe area.
  - Special protective equipment and precautions for fire-fighters
    - Wear fire/flame resistant/retardant clothing.
    - Wear protective gloves/protective clothing/eye protection/face protection.
    - Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

6. Accidental release measures
- Personnel precautions, protective equipment and emergency procedures
  - Ventilate area after material pick up is complete.
  - Wear proper protective equipment.
- Methods and materials for containment and cleaning up
  - Sweep up, place in a bag and hold for waste disposal.
- Preventive measures for secondary accident
  - Collect spillage.

7. Handling and storage
- Precautions for safe handling
  - Preventive measures
    - (Protective measures against fire and explosion)
      - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - Exhaust/ventilator
    - Exhaust/ventilator should be available.
  - Safety treatments
    - Avoid contact with skin.
    - Avoid contact with eyes.
  - Safety Measures/Incompatibility
    - Wear protective gloves, protective clothing or face protection.
    - When using do not eat, drink or smoke.
- Conditions for safe storage, including any incompatibilities
  - Recommendation for storage
    - Keep container tightly closed.
    - Store in a cool, dry place. Do not store in direct sunlight.

8. Exposure controls/personal protection
- Exposure controls
  - Appropriate engineering controls
    - Do not use in areas without adequate ventilation.
    - Eye wash station should be available.
    - Washing facilities should be available.
  - Individual protection measures

Respiratory protection
Wear respiratory protection.
Hand protection
Wear protective gloves.
Eye protection
Wear eye/face protection.

9. Physical and Chemical Properties

Information on basic physical and chemical properties
Physical properties
Appearance: Crystalline powder or powder
Color: White
Odor: Odourless
Phase change temperature
Initial Boiling Point/Boiling point data N.A.
Melting point/Freezing point data N.A.
Decomposition temperature data N.A.
Flash point data N.A.
Auto-ignition temperature data N.A.
Explosive properties data N.A.
Vapor pressure data N.A.
Vapor density data N.A.
Specific gravity/Density: 2.10
Solubility
Solubility in water: Difficult solubility (0.025g/100g)
n-Octanol /water partition coefficient data N.A.

10. Stability and Reactivity

Chemical stability
Stable under normal storage/handling conditions.
Conditions to avoid
Contact with fire source.

11. Toxicological Information

Information on toxicological effects
No Acute toxicity data available
No Irritant properties data available
No Allergenic and sensitizing effects data available
No Mutagenic effects data available
No Carcinogenic effects data available
No Teratogenic effects data available
No reproductive toxicity data available
No STOT-single/repeated exposure data available
No Aspiration hazard data available
Additional data
May cause lung disorders by massive inhalation of powdered substance.
-e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

12. Ecological Information

Ecotoxicity

No Aquatic toxicity data available

No Persistence and degradability data available

No Bioaccumulative potential data available

No Mobility in soil data available

Ozone depleting chemical data not available

13. Disposal considerations

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

Not applicable to UN NO.

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

US major regulations

TSCA

Phosphoric acid, magnesium salt (1:1)

Other regulatory information

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

16. Other information

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)
2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2017 TLVs and BEIs. (ACGIH)
http://monographs.iarc.fr/ENG/Classification/index.php
Supplier's data/information
Hazard Communication Standard - 2012

General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2016).