

**Sodium phosphate dibasic dihydrate****04272-1KG**

Version 1.2

Revision Date 09/28/2020

Print Date 05/29/2023

**SECTION 1. IDENTIFICATION**

Product name : Sodium phosphate dibasic dihydrate

Number : 000000020786

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH  
Wunstorfer Straße 40  
Seelze, 30926

For more information call : 1-800-368-0050  
+1-231-726-3171(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : **Medical: 1-800-498-5701 or +1-303-389-1414**  
: **Transportation (CHEMTREC): 1-800-424-9300 or**  
: **+1-703-527-3887**  
:  
: (24 hours/day, 7 days/week)

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form : solid

Color : colourless

Odor : odourless

**Classification of the substance or mixture**

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Precautionary statements : **Prevention:**  
Use personal protective equipment as required.

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Hazards not otherwise classified : Repeated or prolonged exposure may irritate eyes, skin and respiratory system.

**Carcinogenicity**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula :  $\text{Na}_2\text{HPO}_4 \cdot 2\text{H}_2\text{O}$

Chemical nature : Substance

| Chemical name                         | CAS-No.    | Concentration |
|---------------------------------------|------------|---------------|
| Disodium hydrogen phosphate-2-hydrate | 10028-24-7 | 100.00 %      |

**SECTION 4. FIRST AID MEASURES**

Inhalation : Remove to fresh air. If respiratory problems develop, obtain medical attention.

Skin contact : Wash off with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion : Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

**Notes to physician**

Most important symptoms/effects, acute and delayed : No information available.

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Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

Specific hazards during firefighting : The product itself does not burn.

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Wear personal protective equipment. Unprotected persons must be kept away.  
Avoid dust formation.  
Avoid contact with skin, eyes and clothing.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not let product enter drains.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Sweep up and shovel into suitable containers for disposal.  
Dispose of in accordance with local regulations.

**SECTION 7. HANDLING AND STORAGE****Handling**

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Precautions for safe handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Avoid inhalation, ingestion and contact with skin and eyes.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.  
The product itself does not burn.

**Storage**

Conditions for safe storage, including any incompatibilities : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.  
Avoid dust formation.

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Eye protection : Safety glasses with side-shields

Hand protection : Latex gloves  
Gloves must be inspected prior to use.  
Replace when worn.

Skin and body protection : Lightweight protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

**Exposure Guidelines**

Contains no substances with occupational exposure limit values.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                             |                                   |
|-----------------------------|-----------------------------------|
| Physical state              | : solid                           |
| Color                       | : colourless                      |
| Odor                        | : odourless                       |
| Odor threshold              | : Note: No data available         |
| pH                          | : 9.0 - 9.2 at , 20 °C            |
| Melting point/range         | : > 450 °C                        |
| Boiling point/boiling range | : Note: No data available         |
| Flash point                 | : Note: Not applicable            |
| Evaporation rate            | : Note: No data available         |
| Flammability                | : The product is not flammable.   |
| Lower explosion limit       | : Note: Not applicable            |
| Upper explosion limit       | : Note: Not applicable            |
| Vapor pressure              | : Note: No data available         |
| Vapor density               | : Note: No data available         |
| Density                     | : 2.07 g/cm <sup>3</sup> at 16 °C |
| Water solubility            | : Note: soluble                   |

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Ignition temperature : Note: Not applicable

Decomposition temperature : Note: No decomposition if used as directed.

Viscosity, dynamic : Note: No data available

Viscosity, kinematic : Note: No data available

Molecular weight : 177.99 g/mol

Bulk density : ca. 1,340 kg/m<sup>3</sup>

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : Strong oxidizing agents  
Strong acids and strong bases

Hazardous decomposition products : Sodium oxides  
Phosphorus compounds

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50: > 2,000 mg/kg

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Species: Rat

Acute inhalation toxicity : Note: No data available

Acute dermal toxicity : Note: No data available

Skin irritation : Species: Rabbit  
Result: slight irritationEye irritation : Species: Rabbit  
Result: slight irritation

Sensitisation : Note: No data available

Further information : Note: Toxicological data applies only to the water free substance.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish : Note: No data available

Toxicity to daphnia and other aquatic invertebrates : Note: No data available

Toxicity to algae : Note: No data available

**Further information on ecology****Ecotoxicology Assessment**

Results of PBT assessment

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

**SECTION 14. TRANSPORT INFORMATION**

**DOT** Not dangerous goods

**TDG** Not dangerous goods

**IATA** Not dangerous goods

**IMDG** Not dangerous goods

**SECTION 15. REGULATORY INFORMATION****Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous : On the inventory, or in compliance with the inventory

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and Nuclear Waste Control  
Act

China. Inventory of Existing : On the inventory, or in compliance with the inventory  
Chemical Substances  
(IECSC)

New Zealand. Inventory of : On the inventory, or in compliance with the inventory  
Chemicals (NZIoC), as  
published by ERMA New  
Zealand

**National regulatory information**

US. EPA CERCLA : The following component(s) of this product is/are subject to  
Hazardous Substances (40 : release reporting under 40 CFR 302 when release exceeds the  
CFR 302) Reportable Quantity (RQ):

Reportable quantity: 5000 lbs  
: Disodium hydrogen 10028-24-7  
phosphate-2-hydrate

**SARA 302 Components** : No chemicals in this material are subject to the reporting  
requirements of SARA Title III, Section 302.

**SARA 313 Components** : This material does not contain any chemical components with  
known CAS numbers that exceed the threshold (De Minimis)  
reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards** : No SARA Hazards

**CERCLA Reportable  
Quantity** : 5000 lbs

**California Prop. 65** : This product does not contain any chemicals known to State of  
California to cause cancer, birth defects, or any other  
reproductive harm.

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|                          |                                         |            |
|--------------------------|-----------------------------------------|------------|
| <b>Massachusetts RTK</b> | : Disodium hydrogen phosphate-2-hydrate | 10028-24-7 |
| <b>New Jersey RTK</b>    | : Disodium hydrogen phosphate-2-hydrate | 10028-24-7 |
| <b>Pennsylvania RTK</b>  | : Disodium hydrogen phosphate-2-hydrate | 10028-24-7 |

**SECTION 16. OTHER INFORMATION**

|                 | <b>HMIS III</b> | <b>NFPA</b> |
|-----------------|-----------------|-------------|
| Health hazard   | : 1             | 1           |
| Flammability    | : 0             | 0           |
| Physical Hazard | : 0             |             |
| Instability     | :               | 0           |

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group