# Sodium phosphate monobasic dihydrate

04269-1KG

Version 1.5 Revision Date 06.11.2025

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

| | | |
|---|---|---|
| Product name | : | Sodium phosphate monobasic dihydrate |
| SDS-number | : | 000000021451 |
| Type of product | : | Substance |
| Remarks | : | Document according to Art. 32 of Regulation (EC) 1907/2006. |
| Chemical name | : | Sodium dihydrogen phosphate-2-hydrate |
| CAS-No. | : | 13472-35-0 |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

| | | |
|---|---|---|
| Use of the Substance/Mixture | : | Laboratory chemicals |
| Uses advised against | : | none |

### 1.3. Details of the supplier of the safety data sheet

| | | | |
|---|---|---|---|
| Company | : | Honeywell Specialty Chemicals Seelze GmbH<br>Wunstorfer Straße 40<br>30926 Seelze<br>Germany | Solstice Advanced Materials US, Inc.<br>115 Tabor Road<br>Morris Plains, NJ 07950-2546<br>USA |
| Telephone | : | (49) 5137-999 0 | |
| For further information, please contact: | : | SafetyDataSheet@solstice.com | |

### 1.4. Emergency telephone number

| | | |
|---|---|---|
| Emergency telephone number | : | +1-703-527-3887 (ChemTrec-Transport)<br>+1 303-739-1378 (Medical) |
| | : | Poison Control Center:<br>United Kingdom: (+44) 844 892 0111 |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture.

### 2.2. Label elements

**REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture.

### 2.3. Other hazards

No information available. Results of PBT and vPvB assessment, see chapter 12.5.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

| Chemical name | CAS-No.<br>Index-No.<br>EC-No. | Classification 1272/2008 | Concentration | Remarks |
|---|---|---|---|---|
| Sodium dihydrogen phosphate-2-hydrate | 13472-35-0<br>231-449-2 | | 100 % | N.C.* |

N.C.* - Non-hazardous substance - for information only

### 3.2. Mixtures

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.
For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

*General advice*:
Move out of dangerous area.

*Inhalation:*
Remove to fresh air. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

*Skin contact:*
After contact with skin, wash immediately with plenty of water.

*Eye contact:*
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.

*Ingestion:*
Rinse mouth with water. If accidentally swallowed obtain immediate medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms. :

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

*Suitable extinguishing media:*
Water spray
Foam
Carbon dioxide (CO2)
Dry powder

*Extinguishing media which shall not be used for safety reasons:*
High volume water jet

### 5.2. Special hazards arising from the substance or mixture

No data available

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Provide adequate ventilation.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Should not be released into the environment.

### 6.3. Methods and materials for containment and cleaning up

Use mechanical handling equipment.
Pick for disposal in tightly closed containers

### 6.4. Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

*Advice on safe handling:*
Do not breathe dust. Wear suitable protective clothing and gloves.

*Advice on protection against fire and explosion:*
Normal measures for preventive fire protection.

*Hygiene measures:*
Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Keep working clothes separately. Wash hands before breaks and at the end of workday. When using do not eat or drink.

### 7.2. Conditions for safe storage, including any incompatibilities

*Requirements for storage areas and containers:*
Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

*Further information on storage conditions:*
Store in original container. Keep containers tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

no additional data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**DNEL/ PNEC-Values**

| Component | End- | Exposure duration | Value | Exposure routes | Remarks |
|---|---|---|---|---|---|

| | use/impact | | | | |
|---|---|---|---|---|---|
| Sodium dihydrogen phosphate-2-hydrate | Workers / Long-term systemic effects | | 4,07 mg/m3 | Inhalation | |
| Sodium dihydrogen phosphate-2-hydrate | Consumers / Long-term systemic effects | | 3,04 mg/m3 | Inhalation | |

| Component | Environmental compartment / Value | Remarks |
|---|---|---|
| Sodium dihydrogen phosphate-2-hydrate | Fresh water: 0,05 mg/l | |
| Sodium dihydrogen phosphate-2-hydrate | Marine water: 0,005 mg/l | |
| Sodium dihydrogen phosphate-2-hydrate | Sewage treatment plant: 50 mg/l | |

### 8.2. Exposure controls

**Occupational exposure controls**

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

**Engineering measures**
Use with local exhaust ventilation.

**Personal protective equipment**
*Respiratory protection:*
In the case of dust or aerosol formation use respirator with an approved filter.

*Hand protection:*
Glove material: Natural Latex
Break through time: > 480 min
Glove thickness: 0,6 mm
Lapren®706
Gloves must be inspected prior to use.
Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.
Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.
Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time.
Manufacturer´s directions for use should be observed because of great diversity of types .
Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

*Eye protection:*
Safety glasses with side-shields

*Skin and body protection:*
Protective suit

**Environmental exposure controls**

Handle in accordance with local environmental regulations and good industrial practices.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| (a) Physical state | : | solid |
| (b) Colour | : | colourless |
| (c) Odour | : | odourless |
| (d) Melting point/freezing point | : | 60 °C |
| (e) Boiling point/boiling range | : | Not applicable<br>Decomposes on heating. |
| (f) Flammability | : | The product is not flammable. |
| (g) Lower and upper explosion limit | : | Lower explosion limit<br>Not applicable |

| | | |
|---|---|---|
| | : | Upper explosion limit<br>Not applicable |
| (h) Flash point | : | Not applicable |
| (i) Auto-ignition temperature | : | Not applicable<br>not auto-flammable |
| (j) Decomposition temperature | : | Loss of water of crystallization on heating.<br>No decomposition if used as directed. |
| (k) pH | : | 4,2 - 4,5<br>at 20 °C<br>(as aqueous solution) |
| (l) Viscosity, kinematic | : | Not applicable |
| (m) Solubility(ies) | : | Water solubility:<br>soluble |
| (n) Partition coefficient: n-octanol/water | : | No data available |
| (o) Vapour pressure | : | No data available |
| (p) Density and / or relative density | : | ca. 2,04 g/cm3<br>at 20 °C |
| (q) Bulk density | : | ca. 900 kg/m3 |
| (q) Relative vapour density | : | No data available |
| (r) Particle characteristics | : | No data available |

**9.2 Other Information**

| | | |
|---|---|---|
| Polymer characteristics | : | No data available |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |

| | | |
|---|---|---|
| Evaporation rate | : | No data available |
| Viscosity, dynamic | : | Not applicable |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended storage conditions.

### 10.2. Chemical stability

Loss of water of crystallization on heating.
No decomposition if used as directed.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

Avoid dust formation.

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:
Phosphorus compounds
Sodium oxides

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

***(a) Acute toxicity***

*Acute oral toxicity:*
LD50
Species: Rat

Value: > 2.000 mg/kg
Method: OECD Test Guideline 420

*Acute dermal toxicity:*
LD50
Species: Rabbit
Value: > 2.000 mg/kg
Method: OECD Test Guideline 402
Test substance: REACH dossier “read-across”

*Acute inhalation toxicity:*
Not classified due to data which are conclusive although insufficient for classification.

*Acute toxicity (other routes of administration):*
No data available

***(b) Skin corrosion/irritation:***
Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

***(c) Serious eye damage/eye irritation:***
Species: Rabbit
Result: slight irritation
According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

***(d) Respiratory or skin sensitisation:***
Mouse local lymph node assay
Species: Mouse
Result: Does not cause skin sensitisation.
Method: OECD 429

***(e) Germ cell mutagenicity:***
Note: Not classified due to data which are conclusive although insufficient for classification.

***(f) Carcinogenicity:***
Note: Not classified due to data which are conclusive although insufficient for classification.

***(g) Reproductive toxicity:***
Remarks: Not classified due to data which are conclusive although insufficient for classification.

***(h) STOT-single exposure:***

No data available

***(i) STOT - repeated exposure:***
Note: Not classified due to data which are conclusive although insufficient for classification.

***(j) Aspiration hazard:***
Not applicable

**11.2. Information on other hazards**

*Endocrine disrupting properties*
No data available

*Other information:*
No data available

## SECTION 12: Ecological information

**12.1. Toxicity**

*Toxicity to fish:*
LC50
semi-static test
Species: Oncorhynchus mykiss (rainbow trout)
Value: > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Test substance: REACH dossier “read-across”

*Toxicity to aquatic plants:*
EC50
Growth rate
Species: Desmodesmus subspicatus (green algae)
Value: > 100 mg/l
Exposure time: 72 h
Method: 92/69/EEC, C.3
Test substance: REACH dossier “read-across”

*Toxicity to aquatic invertebrates:*
EC50
semi-static test
Species: Daphnia magna (Water flea)

Value: > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Test substance: REACH dossier “read-across”

### 12.2. Persistence and degradability

*Biodegradability*:
The methods for determining biodegradability are not applicable to inorganic substances.

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

*Product:*
Dispose according to legal requirements.

*Packaging:*
Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*
Provisions relating to waste:
EC Directive 2006/12/EC; 2008/98/EEC
Regulation No. 1013/2006
For personal protection see section 8.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

No data available

### 14.4 Packaging group

No data available

### 14.5 Environmental hazards

ADR/RID: no Marine pollutant: no

### 14.6 Special precautions for user

No data available

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

| Basis | Value | Remarks |
|---|---|---|
| Directive 2012/18/EC<br>SEVESO III | | Not applicable |
| Substances of very high concern (SVHC) | | This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w). |

**Other inventory information**

USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended
On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended
On the inventory, or in compliance with the inventory

Canada. Domestic Substances List (DSL), as amended
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. Inventory of Chemicals and Chemical Substances (PICCS)
On the inventory, or in compliance with the inventory

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

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

Taiwan Chemical Substance Inventory (TCSI)
On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

**Further information**

All directives and regulations refer to amended versions.
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

## Sodium phosphate monobasic dihydrate

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Abbreviations:
EC European Community
CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level
vPvB Very persistent and very biaccumulative substance
PBT Persistent, bioaccmulative und toxic substance

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