

## Sodium phosphate dibasic

71640-1KG

Version 1.3

Revision Date 17.12.2022

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

#### 1.1. Product identifier

Product name : Sodium phosphate dibasic  
SDS-number : 000000020709  
Type of product : Substance  
Remarks : Document according to Art. 32 of Regulation (EC) 1907/2006.  
Chemical name : Disodium hydrogenorthophosphate  
CAS-No. : 7558-79-4  
REACH Registration Number : no data available

#### 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 International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
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Telephone :  
For further information, please contact: : [SafetyDataSheet@Honeywell.com](mailto:SafetyDataSheet@Honeywell.com)

#### 1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)  
+1-303-389-1414 (Medical)  
Country based Poison : see chapter 15.1

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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

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

#### 2.2. Label elements

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

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

#### 2.3. Other hazards

None known.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Disodium hydrogenorthophosphate	7558-79-4 231-448-7		100 %	N.C.*

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

#### 3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.

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For the full text of the H-Statements mentioned in this Section, see Section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

*General advice:*

First aider needs to protect himself.

*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. Call a physician if irritation develops or persists.

*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

No data available

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

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

*Suitable extinguishing media:*

Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
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

In case of fire hazardous decomposition products may be produced such as:

Phosphorus compounds  
Sodium oxides

#### 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.

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### SECTION 6: Accidental release measures

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

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

#### 6.2. Environmental precautions

Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system.

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

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

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### 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:*  
Avoid dust formation.

*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

*Further information on storage conditions:*  
Store in original container. Keep containers tightly closed in a dry, cool and 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-use/impact	Exposure duration	Value	Exposure routes	Remarks
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Disodium hydrogenorthophosphate	Workers / Long-term systemic effects		4,07 mg/m3	Inhalation	
Disodium hydrogenorthophosphate	Consumers / Long-term systemic effects		3,04 mg/m3	Inhalation	

Component	Environmental compartment / Value	Remarks
Disodium hydrogenorthophosphate	Fresh water: 0,05 mg/l	
Disodium hydrogenorthophosphate	Marine water: 0,005 mg/l	
Disodium hydrogenorthophosphate	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.  
Do not breathe dust.

**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.

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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 recommends to use the chemical protective glove in practice not longer than 50% of the recommended 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:*

Wear suitable protective equipment.

### 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

Physical state	:	solid
Colour	:	colourless
Odour	:	odourless
molecular weight	:	141,96 g/mol
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	The product is not flammable.
Upper explosion limit	:	Not applicable

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Lower explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No decomposition if used as directed.
pH	:	8,9 - 9,2 at 20 °C
Viscosity, kinematic	:	No data available
Water solubility	:	125 g/l at 20 °C
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	No data available
Bulk density	:	ca. 1.000 kg/m <sup>3</sup>
Relative vapour density	:	No data available

### 9.2 Other Information

The product is hygroscopic.

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

Viscosity, dynamic : No data available



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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions.

#### 10.2. Chemical stability

No decomposition if used as directed.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

No data available

#### 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

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

*Acute oral toxicity:*

LD50

Species: Rat

Value: > 2.000 mg/kg

Method: OECD Test Guideline 420

*Acute dermal toxicity:*

LD50

Species: Rat

Value: > 2.000 mg/kg

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Method: OECD Test Guideline 402

*Acute inhalation toxicity:*

Not classified due to data which are conclusive although insufficient for classification.

*Skin irritation:*

Species: Rabbit

Result: Mild skin irritation

Method: OECD Test Guideline 404

According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

*Eye irritation:*

Species: Rabbit

Result: Mild eye irritation

Method: OECD Test Guideline 405

According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

*Respiratory or skin sensitisation:*

Mouse local lymph node assay

Species: Mouse

Result: non-sensitizing

Method: OECD Test Guideline 429

*Repeated dose toxicity:*

Note: Not classified due to data which are conclusive although insufficient for classification.

*Carcinogenicity:*

Note: No data available

*Germ cell mutagenicity:*

Note: No data available

*Reproductive toxicity:*

Remarks: Not classified due to data which are conclusive although insufficient for classification.

*Aspiration hazard:*

No data available

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### 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  
static test  
Species: *Desmodesmus subspicatus* (green algae)  
Value: > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Test substance: REACH dossier "read-across"

*Toxicity to Microorganisms:*

EC50  
Respiration inhibition  
static test  
Species: activated sludge  
Value: > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Test substance: REACH dossier "read-across"

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### *Toxicity to aquatic invertebrates:*

EC50

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 the biological degradability 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

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## **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

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*Further information:*

Provisions relating to waste:  
EC Directive 2006/12/EC; 2008/98/EEC  
Regulation No. 1013/2006

For personal protection see section 8.

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### SECTION 14: Transport information

**14.1 UN 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)**

**14.4 Packaging group**

**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

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### 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		Not applicable
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No

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		Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1\%$ (w/w).
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**Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
Munich : 089/19240	

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftnformation); +46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

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Latvia	+37167042473
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### Other inventory information

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended  
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. 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.

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## 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**Honeywell**  
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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 bioaccumulative substance

PBT Persistent, bioaccumulative und toxic substance

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.

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