

F71650 Sodium phosphate 12H2OPPA1,00KPF

00000020925

Version 1.0

Revision Date 09/24/2016

Print Date 10/17/2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sodium phosphate dibasic dodecahydrate

Number : 00000020925

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

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 dangerous substance or mixture according to the Globally Harmonised System (GHS).

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

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

F71650 Sodium phosphate 12H2OPPA1,00KPF

00000020925

Version 1.0

Revision Date 09/24/2016

Print Date 10/17/2019

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 INGREDIENTSFormula : $\text{HNa}_2\text{PO}_4 \cdot 12\text{H}_2\text{O}$

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Disodium hydrogenorthophosphate	10039-32-4	100.00 %

SECTION 4. FIRST AID MEASURES

- General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
- 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 : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. 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 : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician.

SECTION 5. FIREFIGHTING MEASURESSuitable extinguishing media : Water spray
Foam

F71650 Sodium phosphate 12H2OPPA1,00KPF

00000020925

Version 1.0

Revision Date 09/24/2016

Print Date 10/17/2019

- Carbon dioxide (CO₂)
Dry powder
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Phosphorus compounds
Sodium oxides
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear personal protective equipment.
Evacuate personnel to safe areas.
Ensure adequate ventilation.
Avoid dust formation.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Discharge into the environment must be avoided.
Do not flush into surface water or sanitary sewer system.
Do not allow run-off from fire fighting to enter drains or water courses.
- Methods for 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**

- Handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

F71650 Sodium phosphate 12H2OPPA1,00KPF

00000020925

Version 1.0

Revision Date 09/24/2016

Print Date 10/17/2019

Storage

Requirements for storage areas and containers : 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 breathing dust.
Avoid contact with skin, eyes and clothing.

Engineering measures : Use with local exhaust ventilation.

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 : Wear suitable protective equipment.
Wear as appropriate:
Protective suit

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

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

Exposure Guidelines

Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Color : colourless

Odor : odourless

SAFETY DATA SHEET



F71650 Sodium phosphate 12H₂OPPA1,00KPF

00000020925

Version 1.0

Revision Date 09/24/2016

Print Date 10/17/2019

pH : 9.0 - 9.3 at , 20 °C

Melting point/range : 34 °C

Boiling point/boiling range : Note: no data available

Flash point : Note: Not applicable

Flammability : The product is not flammable.

Lower explosion limit : Note: Not applicable

Upper explosion limit : Note: Not applicable

Vapor pressure : Note: no data available

Density : ca. 1.52 g/cm³ at 20 °C

Water solubility : 77 g/l at 20 °C

Partition coefficient:
n-octanol/water : Note: no data available

Ignition temperature : Note: Not applicable

Auto-ignition temperature : Note: not auto-flammable

Decomposition temperature : Note: Loss of water of crystallization on heating.

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

Molecular weight : 358.14 g/mol

F71650 Sodium phosphate 12H₂OPPA1,00KPF**00000020925**

Version 1.0

Revision Date 09/24/2016

Print Date 10/17/2019

Bulk density : ca. 1,140 kg/m³**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Protect from heat/overheating.

Incompatible materials to avoid : No information available.

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

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: > 2,000 mg/kg
Species: Rat
Method: OECD Test Guideline 420
Test substance: anhydrous substance

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

Acute dermal toxicity : LD50: > 2,000 mg/kg
Species: Rat
Method: OECD Test Guideline 402
Test substance: anhydrous substance

Skin irritation : Species: Rabbit
Result: slight irritation
Method: OECD Test Guideline 404
Test substance: anhydrous substance

Eye irritation : Species: Rabbit
Result: slight irritation

F71650 Sodium phosphate 12H₂OPPA1,00KPF

00000020925

Version 1.0

Revision Date 09/24/2016

Print Date 10/17/2019

Method: OECD Test Guideline 405
Test substance: anhydrous substance

Sensitisation : Mouse local lymph node assay
Species: Mouse
Result: non-sensitizing
Test substance: anhydrous substance
Method: OECD Test Guideline 429

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

Genotoxicity in vitro : Note: no data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

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

Toxicity to daphnia and other aquatic invertebrates : static test
EC50: > 100 mg/l
Exposure time: 48 h
Species: *Daphnia magna* (Water flea)
Test substance: REACH dossier "read-across"
Method: OECD Test Guideline 202

Toxicity to algae : static test
EC50: > 100 mg/l
Exposure time: 72 h
Species: *Desmodesmus subspicatus* (*Scenedesmus subspicatus*)
Test substance: REACH dossier "read-across"
Method: OECD Test Guideline 201

SAFETY DATA SHEET



F71650 Sodium phosphate 12H2OPPA1,00KPF

00000020925

Version 1.0

Revision Date 09/24/2016

Print Date 10/17/2019

Toxicity to bacteria : static test
EC50: > 1,000 mg/l
Exposure time: 3 h
End point: Respiration inhibition
Species: activated sludge
Test substance: REACH dossier "read-across"
Method: OECD Test Guideline 209

Elimination information (persistence and degradability)

Biodegradability : Note: The methods for determining the biological degradability are not applicable to inorganic substances.

Further information on ecology

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 : All components of this product are on the Canadian DSL

F71650 Sodium phosphate 12H2OPPA1,00KPF

00000020925

Version 1.0

Revision Date 09/24/2016

Print Date 10/17/2019

Environmental Protection
Act (CEPA). Domestic
Substances List (DSL)

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

Korea. Toxic Chemical
Control Law (TCCL) List : On the inventory, or in compliance with the inventory

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

China. Inventory of Existing
Chemical Substances : 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

National regulatory information

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.

Massachusetts RTK : Disodium hydrogenorthophosphate 10039-32-4

F71650 Sodium phosphate 12H2OPPA1,00KPF

00000020925

Version 1.0

Revision Date 09/24/2016

Print Date 10/17/2019

New Jersey RTK : Disodium hydrogenorthophosphate 10039-32-4**Pennsylvania RTK** : Disodium hydrogenorthophosphate 10039-32-4**SECTION 16. OTHER INFORMATION**

	HMIS III	NFPA
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.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group