

# Material Safety Data Sheet

Identification of the substance/mixture and of the company/undertaking			
Product name		di-Sodium Hydrogen Ortho Phosphate Anhydrous	
Mol. formula	HNa2O4P	Cas no	7558-79-4
Mol. wt.	141,96 g/mol		
Manufacture name	Pioneers for laboratory chemicals		
Brand name	PIOCHEM		
Address	Area 540, Industrial Zone 6 <sup>th</sup> October city Giza, Egypt.		
Website	www.piochem.com		
E-mail	info@piochem.com		
Phone number	+201225728304, +201023932115		

## 1. HAZARDS IDENTIFICATION

### 1.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
This substance is not classified as dangerous according to Directive 67/548/EEC.

### 1.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 1.3 Other hazards - none

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### 2.1 Substances

Synonyms : Disodium hydrogen phosphate  
sec-Sodium phosphate  
Disodium phosphate  
Sodium hydrogenphosphate

Formula : HNa<sub>2</sub>O<sub>4</sub>P

Molecular Weight : 141,96 g/mol

### **3. FIRST AID MEASURES**

#### **3.1 Description of first aid measures**

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

##### **In case of eye contact**

Flush eyes with water as a precaution.

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### **3.2 Most important symptoms and effects, both acute and delayed**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **3.3 Indication of any immediate medical attention and special treatment needed**

no data available

### **4. FIREFIGHTING MEASURES**

#### **4.1 Extinguishing media**

##### **Suitable extinguishing**

##### **media**

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

#### **4.2 Special hazards arising from the substance or mixture**

Oxides of phosphorus, Sodium oxides

#### **4.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **4.4 Further information**

The product itself does not burn.

### **5. ACCIDENTAL RELEASE MEASURES**

#### **5.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

#### **5.2 Environmental precautions**

Do not let product enter drains.

#### **5.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **5.4 Reference to other sections**

For disposal see section 13.

### **6. HANDLING AND STORAGE**

#### **6.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

## 6.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic. Keep in a dry place.

## 6.3 Specific end uses

no data available

# 7. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 7.1 Control parameters

Components with workplace control parameters

## 7.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# 8. PHYSICAL AND CHEMICAL PROPERTIES

## 8.1 Information on basic physical and chemical properties

- |   |                               |
|---|-------------------------------|
| a) Appearance                                   | Form: powder<br>Colour: white |
| b) Odour  | no data available             |
| c) Odour Threshold                              | no data available             |
| d) pH   | 8,9 - 9,2 at 50 g/l at 25 °C  |
| e) Melting point/freezing point                 | no data available             |
| f) Initial boiling point and boiling range      | no data available             |
| g) Flash point                                  | no data available             |
| h) Evaporation rate                             | no data available             |
| i) Flammability (solid, gas)                    | no data available             |
| j) Upper/lower flammability or explosive limits | no data available             |

k) Vapour pressure	no data available
l) Vapour density	4,90 - (Air = 1.0)
m) Relative density	1,520 g/cm <sup>3</sup>
n) Water solubility	soluble
o) Partition coefficient: n-octanol/water	no data available
p) Autoignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

## 8.2 Other safety information

no data available

## 9. STABILITY AND REACTIVITY

### 9.1 Reactivity

no data available

### 9.2 Chemical stability

no data available

### 9.3 Possibility of hazardous reactions

no data available

### 9.4 Conditions to avoid

Exposure to moisture.

### 9.5 Incompatible materials

Strong oxidizing agents, Strong acids

### 9.6 Hazardous decomposition products

Other decomposition products - no data available

## 10. TOXICOLOGICAL INFORMATION

### 10.1 Information on toxicological effects

#### Acute toxicity

no data available

#### Skin corrosion/irritation

Skin - rabbit - Mild skin irritation - 24 h

#### Serious eye damage/eye irritation

Eyes - rabbit - Mild eye irritation - 24 h

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Potential health effects****Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion**

May be harmful if swallowed.

**Skin**

May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**

May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: WC4500000

**11. ECOLOGICAL INFORMATION****11.1 Toxicity**

no data available

**11.2 Persistence and degradability**

no data available

**11.3 Bioaccumulative potential**

no data available

**11.4 Mobility in soil**

no data available

**11.5 Results of PBT and vPvB assessment**

no data available

**11.6 Other adverse effects**

no data available

**12. DISPOSAL CONSIDERATIONS****12.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**13. TRANSPORT INFORMATION****13.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

**13.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**13.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**13.4 Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**13.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**13.6 Special precautions for user**

no data available

**14. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

**14.2 Chemical Safety Assessment**

no data available

**15. OTHER INFORMATION****Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. See [www.piochem.com](http://www.piochem.com) for additional terms and conditions of sale.