

**SECTION 1 – IDENTIFICATION**

**Product Identifier:** Sodium Phosphate, Dibasic  
ACS Grade

**Catalogue Number:** 1540

**Other means of identification:** sec-Sodium phosphate  
Disodium hydrogen phosphate  
Disodium phosphate  
Sodium hydrogenphosphate

**Recommended use of the chemical and restrictions on use:**  
For R&D use only. Not for pharmaceutical, household or other uses.

**Supplier Information:**

Axil Scientific Pte Ltd  
2 Tukang Innovation Grove  
#06-01, JTC MedTech Hub  
Singapore 618305  
Tel: +65 6775 7318  
Email: [custcare@axilscientific.com](mailto:custcare@axilscientific.com)

Apical Scientific Sdn Bhd  
No. 17, Jalan BS7/1C  
Taman Perindustrian Bukit Serdang  
43300 Seri Kembangan, Selangor, Malaysia  
Tel: +603 8943 3252  
Email: [custcare@apicalscientific.com](mailto:custcare@apicalscientific.com)

**Emergency phone number:**

Monday – Friday, 8:00 a.m. to 6:00 p.m.  
+65 6775 7318 (Singapore)  
+603 8943 3252 (Malaysia)

**SECTION 2 – HAZARDS IDENTIFICATION**
**GHS Classification**

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

**Other Hazards** - None

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

**Chemical Identity:** Sodium Phosphate, Dibasic  
**Synonyms:** sec-Sodium phosphate  
Disodium hydrogen phosphate  
Disodium phosphate  
Sodium hydrogenphosphate

**Molecular Formula:**  $\text{Na}_2\text{HPO}_4$   
**Molecular Weight:** 141.96 g/mol  
**CAS No.:** 7558-79-4  
**EC No.:** 231-448-7

**SECTION 4 – FIRST-AID MEASURES**

**Eye Contact**

Flush eyes with water as a precaution.

**Skin Contact**

Immediately wash skin thoroughly with soap and copious amounts of water.

**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration or if breathing is difficult, give oxygen.

**Ingestion**

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

**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.

**Indication of immediate medical attention and special treatment needed**

Data not available.

**SECTION 5 – FIRE-FIGHTING MEASURES****Extinguishing Media**

Use water spray, dry chemical powder, carbon dioxide or alcohol-resistant foam.

**Special Exposure Hazards**

Sodium oxides, Phosphorus oxide

**Special Fire-fighting Procedures**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Further Information**

The product itself does not burn.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Prevent skin/eye contact. Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust.

**Environmental Precautions**

Do not allow material into sewers and drainage systems.

**Methods for Cleaning Up**

Clean up spills immediately, observing precautions in the safety data sheet and label. Minimize dust generation. Dispose into a chemical waste container.

**SECTION 7 – HANDLING AND STORAGE**

### Precautions for safe handling

Prevent skin/eye contact. Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

Store in tightly closed container in a cool, dry and well-ventilated area.

## SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Occupational Exposure Limits

We are not aware of any national exposure limit.

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

### Eye/ Face Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin/ Hand 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### Body protection

Impervious clothing. 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).

### Control of environmental exposure

Do not let product enter drains.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

a)	<b>Appearance</b>	White powder
b)	<b>Odour</b>	Odourless
c)	<b>Odour Threshold</b>	Not available
d)	<b>pH (10 g/L, H<sub>2</sub>O; 20 °C)</b>	8.7 – 9.3
e)	<b>Melting/freezing point</b>	Not available
f)	<b>Initial boiling point and</b>	250 °C

**boiling range**

g)	<b>Flash point</b>	Not available
h)	<b>Evaporation rate</b>	Not available
i)	<b>Flammability (solid, gas)</b>	Not available
j)	<b>Upper/lower flammability or explosive limits</b>	Not available
k)	<b>Vapour pressure (mm Hg)</b>	Not available
l)	<b>Vapour density (Air = 1.0)</b>	4.90
m)	<b>Relative density</b>	1.520 g/cm <sup>3</sup>
n)	<b>Solubility (ies)</b>	77 g/L at 20 °C (Water)
o)	<b>Partition coefficient: n-octanol/water</b>	Not available
p)	<b>Autoignition temperature</b>	Not available
q)	<b>Decomposition temperature</b>	Not available
r)	<b>Viscosity</b>	Not available

**SECTION 10 – STABILITY AND REACTIVITY**
**Reactivity**

Data not available.

**Chemical stability**

Stable.

**Possibility of hazardous reactions**

Data not available.

**Conditions to avoid**

Data not available.

**Incompatible material**

Strong oxidizing agents, Strong acids

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus, Sodium oxides

**SECTION 11 – TOXICOLOGICAL INFORMATION**
**Acute toxicity**

LD50 (oral): 17,000 mg/kg [Rat]

**Skin corrosion/irritation**

Mild skin irritation - 24h [Rabbit]

**Serious eye damage/eye irritation**

Mild eye irritation - 24h [Rabbit]

**Respiratory or skin sensitization**

Data not available.

**Germ cell mutagenicity**

Data not 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**

Data not available.

**Specific target organ toxicity – single exposure**

Data not available.

**Specific target organ toxicity – repeated exposure**

Data not available.

**Aspiration hazard**

Data not available.

**Other information**

RTECS: Data not available

**SECTION 12 – ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish:

(LC50): 467 mg/l – 48h [Gambusia affinis]

Toxicity to aquatic invertebrates:

(EC50): 1,089 mg/l – 48h [Daphnia magna]

**Persistence and degradability**

Data not available.

**Bioaccumulative potential**

Data not available.

**Mobility in soil**

Data not available.

**Other adverse effect**

Data not available.

### SECTION 13 – DISPOSAL CONSIDERATIONS

**Product**

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

**Contaminated packaging**

Dispose off as unused product.

### SECTION 14 – TRANSPORT INFORMATION

**UN Number**

ADR/RID: -

IMDG: -

IATA-DGR: -

**UN Proper Shipping Name:**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

**Transport Hazard Class(es)**

ADR/RID: -

IMDG: -

IATA-DGR: -

**Packing Group**

ADR/RID: -

IMDG: -

IATA-DGR: -

**Environmental Hazards**

ADR/RID: no

IMDG: marine pollutant: no

IATA-DGR: no

**Special Precaution for Users**

Data not available

### SECTION 15 – REGULATORY INFORMATION

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

Data not available

### SECTION 16 – OTHER INFORMATION

**Date of Issue:** JULY 11, 2008

**Date of Revision:** FEBRUARY 23, 2022

*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. Axil Scientific Pte Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.*