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

1.1. Product identifier

Product form: Substance
Substance name: Sodium Phosphate Monobasic Anhydrous
Chemical name: Monobasic Sodium Phosphate
CAS No: 7558-80-7
Product code: 2761
Formula: NaH₂PO₄
Synonyms:

- acid sodium phosphate / acid sodium phosphate, anhydrous / E339(a) food grade / monobasic sodium phosphate / monosodium dihydrogen orthophosphate / monosodium dihydrogen phosphate / monosodium dihydrogen phosphate, anhydrous / monosodium hydrogen phosphate / monosodium orthophosphate / monosodium orthophosphate, anhydrous / monosodium phosphate / monosodium phosphate, anhydrous / monosorb XP-4 / MSP / MSP, anhydrous / phosphoric acid monosodium salt, anhydrous / phosphoric acid, monosodium salt / primary-sodium phosphate / primary-sodiumphosphate, anhydrous / sodium acid phosphate, anhydrous / sodium biphosphate / sodium biphosphate, anhydrous / sodium dihydrogen monophosphate / sodium dihydrogen phosphate / sodium dihydrogen phosphate (NaH₂PO₄) / sodium dihydrogen phosphate, anhydrous / sodium monobasic phosphate (NaH₂PO₄) / sodium orthophosphate, primary / sodium phosphate (Na(H₂PO₄)) / sodium phosphate, monobasic / sodium phosphate, monobasic, anhydrous / sodium primary phosphate

BIG no: 13599

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

Use of the substance/mixture:
- Pharmaceutical product
- Food industry: additive
- Textile: Chemical raw material

1.3. Details of the supplier of the safety data sheet

Jost Chemical Co.
8150 Lackland Rd.
Saint Louis, Missouri 63114
T 314-428-4300 - F 314-428-4366
www.jostchemical.com

1.4. Emergency telephone number

Emergency number: CHEMTREC 800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)
Not classified

2.2. Label elements

GHS-US labeling
No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type: Mono-constituent
Full text of H-phrases: see section 16

3.2. Mixture
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general: If you feel unwell, seek medical advice.
First-aid measures after inhalation: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact: Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-aid measures after eye contact: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after inhalation: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Slight irritation.
Symptoms/injuries after skin contact: No data available.
Symptoms/injuries after eye contact: Slight irritation.
Chronic symptoms: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Respiratory difficulties.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: EXTINGUISHING MEDIA FOR SURROUNDING FIRES: Adapt extinguishing media to the environment.
Unsuitable extinguishing media: No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture
Fire hazard: DIRECT FIRE HAZARD. Non combustible.
Explosion hazard: DIRECT EXPLOSION HAZARD. Not applicable. INDIRECT EXPLOSION HAZARD. Not applicable.
Reactivity: Reacts slowly on exposure to water (moisture) with (some) metals. On burning: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts violently with (some) acids/bases.

5.3. Advice for firefighters
Precautionary measures fire: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions: Dilute toxic gases with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.
Measures in case of dust release: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection**.

6.2. Environmental precautions
Avoid release to the environment.
6.3. Methods and material for containment and cleaning up

For containment

Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.

Methods for cleaning up

Stop dust cloud by humidifying. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Does not require any specific or particular measures.

Storage conditions

Store in a well-ventilated place. Keep cool.

Storage temperature

20 °C

Heat-ignition

KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage

KEEP SUBSTANCE AWAY FROM: (strong) acids. (strong) bases. oxidizing agents. water/moisture.

Storage area

Store in a dry area. Keep container in a well-ventilated place. Store at room temperature. Meet the legal requirements.

Special rules on packaging

SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials

SUITABLE MATERIAL: paper. cardboard. textile. polyethylene. MATERIAL TO AVOID: steel. aluminium.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Ensure good ventilation of the work station. Extraction to remove dust at its source.

Personal protective equipment


Materials for protective clothing

GIVE GOOD RESISTANCE: rubber. plastics.

Hand protection

Gloves.

Eye protection

Safety glasses. In case of dust production: protective goggles.

Skin and body protection

Protective clothing.

Respiratory protection

Dust production: dust mask with filter type P1.

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Solid
**Appearance**: Crystalline solid. Crystalline powder.

**Color**: White

**Odor**: Odourless

**Odor threshold**: No data available

**pH**: 4.4 (1 %)

**pH solution**: 1 %

**Melting point**: No data available

**Freezing point**: Not applicable

**Boiling point**: No data available

**Flash point**: Not applicable

**Relative evaporation rate (butyl acetate=1)**: No data available

**Flammability (solid, gas)**: No data available

**Explosion limits**: Not applicable

**Explosive properties**: No data available

**Oxidizing properties**: No data available

**Vapor pressure**: No data available

**Relative density**: 2.4

**Relative vapor density at 20 °C**: No data available

**Specific gravity / density**: 2360 kg/m³

**Molecular mass**: 119.98 g/mol

**Solubility**: Soluble in water. Water: 85 g/100ml

**Log Pow**: -3.96 (Estimated value)

**Log Kow**: No data available

**Auto-ignition temperature**: Not applicable

**Decomposition temperature**: > 170 °C

**Viscosity**: No data available

**Viscosity, kinematic**: Not applicable

**Viscosity, dynamic**: No data available

**9.2. Other information**

**Minimum ignition energy**: Not applicable

**VOC content**: Not applicable

**Other properties**: Translucent. Hygroscopic. Substance has acid reaction.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Reacts slowly on exposure to water (moisture) with (some) metals. On burning: release of toxic and corrosive gases/vapours (phosphorus oxides). Reacts violently with (some) acids/bases.

**10.2. Chemical stability**

Hygroscopic.

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**


**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**
Acute toxicity: Not classified (Based on available data, the classification criteria are not met)

Skin corrosion/irritation: Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation: Not classified (Based on available data, the classification criteria are not met)

Respiratory or skin sensitization: Not classified (Lack of data)

Germ cell mutagenicity: Not classified (Lack of data)

Carcinogenicity: Not classified (Lack of data)

Reproductive toxicity: Not classified (Lack of data)

Specific target organ toxicity (single exposure): Not classified (Lack of data)

Specific target organ toxicity (repeated exposure): Not classified (Lack of data)

Aspiration hazard: Not classified (Not applicable)

Symptoms/injuries after inhalation: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Slight irritation.

Symptoms/injuries after skin contact: No data available.

Symptoms/injuries after eye contact: Slight irritation.


Chronic symptoms: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Respiratory difficulties.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.


12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on the global warming: No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste treatment methods: Dispose in a safe manner in accordance with local/national regulations.
Sodium Phosphate Monobasic Anhydrous
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Waste disposal recommendations
Remove waste in accordance with local and/or national regulations. Precipitate/make insoluble. Remove to an authorized dump (Class I). Avoid discharge of large amounts into the sewer. Do not discharge into surface water.

### Additional information
LWCA (the Netherlands): KGA category 05. Can be considered as non hazardous waste according to Directive 2008/98/EC.

### SECTION 14: Transport information

#### Department of Transportation (DOT)
In accordance with DOT
Not regulated for transport

#### Additional information
Other information : No supplementary information available.

#### Transport by sea
No additional information available

#### Air transport
No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

**Sodium Phosphate Monobasic Anhydrous (7558-80-7)**
Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

**CANADA**

**Sodium Phosphate Monobasic Anhydrous (7558-80-7)**
Listed on the Canadian DSL (Domestic Substances List) inventory.

**EU-Regulations**

**Sodium Phosphate Monobasic Anhydrous (7558-80-7)**
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**
Not classified

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**
Not classified

**National regulations**

**Sodium Phosphate Monobasic Anhydrous (7558-80-7)**
Listed on the AICS (the Australian Inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on INCS (Mexican national Inventory of Chemical Substances)
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

#### 15.3. US State regulations

### SECTION 16: Other information

**Indication of changes** : Initial SDS.
### Sodium Phosphate Monobasic Anhydrous

#### Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>NFPA health hazard</th>
<th>1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA fire hazard</td>
<td>0 - Materials that will not burn.</td>
</tr>
<tr>
<td>NFPA reactivity</td>
<td>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</td>
</tr>
</tbody>
</table>

#### HMIS III Rating

<table>
<thead>
<tr>
<th>Health</th>
<th>1 - Slight Hazard - Irritation or minor reversible injury possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0 - Minimal Hazard - Materials that will not burn</td>
</tr>
<tr>
<td>Physical</td>
<td>0 - Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.</td>
</tr>
</tbody>
</table>

#### Personal Protection

| E                 | E - Safety glasses, Gloves, Dust respirator                                                     |

**SDS US Custom (-ADR)**

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*