

Material Safety Data Sheet

Sodium phosphate, monobasic, anhydrous

Section 1 – PRODUCT AND COMPANY IDENTIFICATION

1. Product Identifier	Sodium phosphate, monobasic, anhydrous;
2. Recommended Use & Uses advised against	Dihydrogen sodium phosphate, anhydrous Uses for Laboratory and R&D only
3. Information of Supplier	SAMCHUN PURE CHEMICAL CO.,LTD ADDRESS; (Mogok-dong) 117, Sandan-ro 16Beon-gil, Pyeongtaek-si, Gyeonggi-do, Korea Emergency Phone; 82-31-668-0700/3 Department; Safety & Environment dep. Web site; http://www.samchun.com

Section 2 – HAZARDS and DANGER IDENTIFICATION

1.GHS Classification- Identification	Serious Eye Damage/Eye Irritation	Category2
2. Label and Mark including Precautionary Statement		

◦Label elements



◦Signal word

Warning

◦Hazard · Danger statement

H319 Causes serious eye irritation

◦Precautionary statement

Precaution	P264 Wash ... thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection
Measures	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 If eye irritation persists: Get medical advice/attention.
Storage	N/A
Dispose	N/A

3. Other Hazard-Risk which are not included in the classification criteria

NFPA index(0~4steps) : Health=1, Fire=0, Reaction=0

Section 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	Other Name	CAS No.	Content (%)
Sodium phosphate, monobasic, anhydrous	Dihydrogen sodium phosphate, anhydrous	7558-80-7	100

Section 4 – FIRST AID MEASURES

1. Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15minutes, Immediate medical attention is required.
2. Skin Contact	Take off contaminated cloths and shoes immediately, wash with plenty Of water and soap for at least 15minutes.
3. Inhalation	Move to fresh air immediately, if breathing is difficult, induce artificial respiration and immediate medical treatment is required.

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| 4. Ingestion | Do not induce vomiting and Call a physician immediately. |
| 5. Immediate medical attention and Notes for physician | Let physician aware material and take protection measures. |

Section 5 – FIRE-FIGHT MEASURES

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| 1. Suitable extinguish media | Dry chemical, water, carbon dioxide, foam extinguishing agents
Inappropriate Extinguishing Media: Not available |
| 2. Special hazards arising from the substance | Thermal decomposition: sodium oxide, phosphorus oxide |
| 3. Special protective equipment and Precautions for fire-fighters | Move a container away from fire place, available not being dangerous
Cool the container with water spray for long time, after extinguishing
No direct contact with material by water. In case of big fire, mass watering in fine spray and decrease vapor. Spray in safety distance, avoid inhaling of material-itself and burnings, position in opposite wind and escape low area. |

Section 6 – ACCIDENTAL RELEASE MEASURES

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| 1. Personal precautions and Emergency procedures | Don't touch leakages and avoid inhale and skin contact, ventilate and use air respiratory in closed room, remove ignition source. |
| 2. Environmental precautions | Minimize leak/spill, collect and keep leak/spill in container |
| 3. Methods and material for containment and cleaning up | Remove residue with high-efficient cleaner |

Section 7 – HANDLING AND STORAGE

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| 1. Precautions for safe Handling | Skin contact, inhalation of vapors and prevent intrusion to the eye, all containers will be grounded. |
| 2. Conditions for safe storage | Keep container tightly sealed and stored dry, cool place, in a well-ventilated area. Will be isolated and incompatible materials. |

Section 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 1. Occupational exposure limit, biological exposure limit**
National law of Safety management of
N/A
- | | |
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| 2. Appropriate Engineering controls | Check conditions of exposure criteria, operation local ventilation during work |
| 3. Personal protective equipment | |
| ◦ Respiratory protection | Since the human body is concerned due to chemical hazards should wear respirators or dust filter combines a dust mask when considering the physical and chemical properties Handling
Reserve for breathing pilhal certified by the Safety and Health Agency
Depending on the work environment affect the image density, or other life or health is concerned, wear supplied-air respirator, air respirator |
| ◦ Eye-protection | Since the human body due to chemical hazards are concerned Wear safety glasses when handling chemical substances
Chemicals Provide eye wash facilities and emergency washing equipment near the handling areas |
| ◦ Hand protection | Since the human body is concerned due to chemical hazards should wear safety gloves when handling chemicals |
| ◦ Skin and body proticion | Since the human body due to chemical hazards are concerned Wear protective clothing for chemical handling |

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

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| 1. Physical state and color | Solid(White) | 2. Odor | Odorless |
| 3. threshold | N/A | 4. pH | 4.5(0.1M sol) |

5. Melting/Freezing point	60°C	6. Boiling point/range	N/A
7. Flashing point	N/A	8. Evaporation speed	N/A
9. Flammability(solid, gas)	N/A	10. Flash or Explosion limit upper / lower	N/A
11. Vapor pressure	N/A	12. Solubility	850g/l(20°C)
13. Vapor density	N/A	14. Gravity	≈2
15. n-octanol-water Partition coefficient	N/A	16. Self ignition temp(°C)	N/A
17. Cracking temp(°C)	225°C	18. Viscosity	N/A
19. Molecular Weight	119.98		

Section 10 – STABILITY AND REACTIVITY

1. Chemical stability and Possibility of Hazardous Reactions	Stable under normal temp. and pressure
2. Conditions to Avoid	Avoid contact with incompatible materials. It will inhibit the generation of dust.
3. Incompatible Materials	Metals, oxidizing
4. Hazardous Decomposition Products	Thermal decomposition products: phosphate, sodium oxide

Section 11 – TOXICOLOGICAL INFORMATION

1. Information on the likely routes of exposure.

N/A

2. Health hazard information

◦ Acute toxic	Oral : LD50 8290 mg/kg Rat Skin : LD50 > 7940 mg/kg Rabbit Inhalation : N/A
◦ Serious skin corrosive / irritation	It may cause skin irritation.
◦ Serious eye damage / irritation	It may cause eye irritation.
◦ Respiratory sensitization	N/A
◦ Skin sensitization	N/A
◦ Carcinogenicity	N/A
◦ Germ cell Mutagenicity	N/A
◦ Reproductive toxic	N/A
◦ Specific target organ toxicity (single exposure)	N/A
◦ Specific target organ toxicity (repeated exposure)	N/A
◦ Aspiration hazard	N/A

Section 12 – ECOLOGICAL INFORMATION

1. Aquatic and Terrestrial eco toxicity	Fish toxicity : LC50 186 mg / l 96 hr Other (fish (Gambusia affinis)) Invertebrate toxicity : N/A Sea algae : N/A
2. Persistence and degradability	Persistence : log Kow -3.96 (estimated) Degradability : N/A
3. Bioaccumulative potential	Concentrations : BCF 3.162 (estimated) Bioaccumulative : N/A
4. Mobility in soil	N/A
5. Other adverse effects	N/A

Section 13 – Disposable considerations

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| 1.Waste methods | Dispose in accordance with local regulations. |
| 2.Waste warning | Isolate waste away from prohibitive mixture substance. |

Section 14 – TRANSPORT INFORMATION

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| 1. UN No. | Non-described |
| 2.Proper shipping Name | Non-described |
| 3.Hazard class | Non-described |
| 4.Packing group | Non-described |
| 5.Marine pollutant | N/A |
| 6.Particular safety Measures for transportation | Non-described |

Section 15 – REGULATORY INFORMATION

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| 1.Occupation safety and health acts | Non-described |
| 2. National law of management of Harmful chemical Substance | Non-described |
| 3. National law of Safety management of hazardous material | Non-described |
| 4.National law of management of Wastes | Designated Waste |
| 5.Other domestic and foreign law | Non-described |

Section 16 – OTHER INFORMATION

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| 1. Material source | A chemical information MSDS Safety and Health Agency
National Institute of Environmental Research Chemical Information Systems
Korea Industrial Technology National Fire Hazardous Materials Information System |
| 1. The 1st edition | 2002.07.30 |
| 2. Revision and The final revision | 5 / 2019.01.03 |
| . Other references | |

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