

Material Safety Data Sheet(MSDS)	Date of establishment	June, 3, 1996.
Dileggia Cadinas Dhagashata (Ambuduana)	Date of revision	Nov, 16, 2017.
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1. Product and Company Identification

A. Product name: Dibasic Sodium Phosphate (Anhydrous)

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

O Recommended Use: For increasing moisture holding capacity, water treatment, antiscales,

emulsifier, dyeing assistant, stabilizer, tooth paste, medicine, pH buffer,

detergent, shampoo, acidifier, raw material for bittern.

O Usage Limits: No data available

C. Details of the supplier of the safety data sheet

O Company: YOUNGJIN CORECHEM INC.

O Address: 1055 Yedeok-ro, Godeok-myen, Yesan-gun, chungcheongnam-do, Korea

O Department: Quality Control Department

○ Telephone : 82-41-338-7317

2. Hazards Identification

A. Classification of the substance

- Skin corrosion/irritation: Category 2

- Serious eye damage/ eye irritation : Category 2

- Specific target organ toxicity following single exposure (respiratory irritation): Category 3

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

- B. Label elements
- O Pictogram



- O Signal word: Warning
- O Hazardous statement
- H315 Causes severe skin burns and eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation
- O Precautionary statement
- P264 Wash thoroughly after handling
- P280 Wear protective gloves/protective clothing/ eye protection/face protection.
- P261 Avoid breathing dust/fume/gas/mist/vapor/spray.
- P271 Use only outdoors or in a well-ventilated area.



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Respond

P302+P352 If on skin: Wash with plenty water

P321 Specific treatments.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

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.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/doctor/.. If you feel unwell.

Storage

P403+P233 Store in a well-ventilated place, keep container tightly closed.

Disposal

P501 Dispose of container in conformity with relevant regulations.

C. NFPA Rating (0-4 level): Health=1, Fire=0, Reactivity=0

3. Composition, Information on Ingredients

Chemical Name	Other names	CAS No.	EC NO.	Percent (%)
Dibasic Sodium Phosphate (ANHYDROUS)	Disodium dihydrogen orthophosphate	7558-79-4	231-448-7	100%

4. First Aid Measures

A. Eye Contact

- If exposed, rinse eyes immediately with running water more than 20 minutes.
- Receive medical treatment immediately.

B. Skin Contact

- If exposed, rinse skin immediately with running water more than 20 minutes.
- Remove and isolate contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-use.
- Receive medical treatment immediately.

C. Inhalation

- Take emergency medical treatment.
- Move victim to well-ventilated place.
- If breathing is hard, supply oxygen.

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- If victim is not breathing, perform artificial respiration.
- D. Ingestion
- Do not put anything to eat into unconscious victim's mouth.
- Give victim medical treatment immediately.
- E. Other medical notices.
- Let medical personnel recognize the material and take protective measure.

5. Explosion / Fire Fighting Measures

- A. Appropriate (and inappropriate) Extinguishing Media
- Inappropriate : High-pressure water (inappropriate)
- Suitable extinguishing:

Great fire: Water spray/mist, normal foam.

Small fire: dry sand, desiccant, alcohol resistant foam, water spray, normal foam, CO2.

- B. Specific Hazards in Presence of Chemical Substances
- If boiled, container may explode.
- Inhalation may be hazardous.
- May burn partly, does not ignite easily.
- Fire can cause irritative and corrosive gas from material.
- C. Precaution and Protective equipments for Fire Fighting
- If not dangerous, move container from fire area.
- May be transported at high temperature.
- Leakage may cause contamination.
- Contact to eyes and skin may cause burn.
- Dig a ditch to dispose fire fighting water and keep material not dispersed.
- Fire involving Tanks;

After extinguish, cool down container with water spray for considerable time

- Fire involving Tanks;

Step back immediately if pressure relief device makes loud sound or tank discolors.

- Fire involving Tanks;

Do not approach tank in flames.

6. Accidental Release Measures

- A. Require measures and protection to protect human body
- Do not touch and walk on leakage.
- Remove all ignition sources.
- Prevent forming dust.
- Ventilate contaminated area.



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- If not dangerous, stop any leakage.
- Take notice of material and condition to avoid.
- B. Required measures to protect environment
- Prevent of inflow into waterway, drain, basement, or closed space.
- C. Purification or removal method
- In case of big leakage, dig a ditch distant from leaked liquid.
- In case of leakage of powder, cover with plastic sheet to prevent spreading and keep it dry.
- In case of small leakage, wash out contaminated area with much water.
- In case of small leakage, use sand and inflammable material to absorb and put in container.
- Use clear shovel to put leakage into dry container and shut loose and move container away from leakage area.

7. Handling & Storage

- A. Safe handling
- Work in reference to Engineering Controls and Personal Protection.
- Avoid contact with eyes, skin and clothing.
- Keep container airtight.
- Wash thoroughly after handling.
- Pay attention to Conditions and Materials to Avoid.
- B. Safe Storage
- Store in airtight container.
- Store in cool and dry place.
- Take notice of material and condition to avoid.

8. Exposure Controls & Personal Protection

- A. Chemical Exposure Limits, Biological Exposure Limit
 - O Korean Regulation: No data available
 - O ACGIH Regulation : No data available
 - O Biological Exposure Limit: No data available
- B. Engineering Controls
- Install local exhaust ventilation, use process isolation or other ways to comply tolerable standard.
- C. Personal Protective Equipment
 - O Respiratory Protection
 - : Use respiratory protection tested and approved under appropriate government standards such NIOSH(US) as CEN(EU)
 - O Eyes Protection



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- : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- O Hands Protection
 - : Wear appropriate chemical-resistant gloves that have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
- O Body Protection
 - : Wear appropriate chemical-resistant apron and boots.

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

9. Physical & Chemical Properties

- A. Appearance: White, colorless powder
- B. Odor: None.
- C. Odor Threshold: No data available
- D. PH: 1% solution pH 9.1
- E. Melting point/Freezing point: 250℃(decomposed) / No data available.
- F. Initial Boiling point and Boiling point range: No data available
- G. Flash point: No data available.
- H. Evaporation Rate: No data available.
- I. Flammability (solid, gas): nonflammable
- J. Low & Upper limit of Flammable or Explosion Range: N/A.
- K. Vapor Pressure: No data available
- L. Solubility: 7.7g/100ml (20℃)
- M. Vapor Density: No data available
- N. Specific Gravity: No data available
- O. n-Octanol/water partition coefficient: -5.8(estimated)
- P. Auto-ignition Temp.: No data available.
- Q. Decomposition Temp.: No data available.
- R. Viscosity: No data available
- S. Molecular Weight and Molecular Formular: 141.98 / Na₂HPO₄

10. Stability & Reactivity

- A. Chemical stability and Possibility of hazardous reactions
 - No data available
- B. Chemical Stability
- Stable under recommended storage conditions.
- C. Possibility of Hazardous Reactions
 - None under normal processing.

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- D. Conditions to Avoid
- No data available.
- E. Incompatible Materials
 - No data available.
- F. Hazardous Decomposition Products
 - No data available.

11. Toxicological Information

- A. Information about possible exposure route: No data available.
- B. Health effect
- O Acute toxicity:
- ORAL : $LD_{50} > 2000$ mg/kg Rat
- Dermal : No data available.
- Inhalation : No data available.
- O Skin corrosion/irritation
- Mild skin irritation 24H (Rabbit)
- O Serious eye damage/eye irritation
- Mild eye irritation -24H (Rabbit)
- O Respiratory sensitization: No data available.
- Carcinogenicity
 - Korea occupational Safety and Health Act: No data available
 - Korea Ministry of Employment and Labor: No data available
 - IARC : No data available
 - OSHA: No data available
 - ACGIH: No data available
 - NTP : No data available
 - EU: No data available
- O Germ cell mutagenicity: No data available.
- O Toxic to reproduction: No data available
- O Specific target organ toxicity following single exposure: A mild respiratory irritation
- O Specific target organ toxicity following repeated exposure: No data available.
- O Aspiration Hazard: No data available

12. Ecological Information

A. Aquatic & Eco-toxicity:

- Fish : LC_{50} 2260000000 mg/ ℓ 96hr - Crustacean : LC_{50} 3580 mg/ ℓ 48hr



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- Algae : LC₅₀ 564000000 mg/l 96hr

B. Persistence and degradability

- No data available

C. Bioaccumulative potential

- No data available

D. Mobility in soil: No data avaiable

E. Other adverse effect: No data available.

13. Disposal Considerations

A. Disposal method

- Put contents in polyethylene bag or similar bag and bury in managed landfills.
- Waste must be disposed of in accordance with federal, state and local environmental control regulations.
- B. Disposal Considerations
- Consider precautions in Waste Control Act(if specified).

14. Transport information

A. UN Number:

ADR/RID: - IMDG: - IATA:-

B. UN proper shipping name:

ARD/RID: Not dangerous goods IMDG: Not dangerous goods

IATA: Not dangerous goods

C. Transport hazard classes:

ADR/RID: - IMDG: - IATA:-

D. package group:

ADR/RID: - IMDG: - IATA:-

E. Environmental hazards:

ADR/RID: no IMDG: no IATA: no

F. Special precautions for user:

In case of fire : No data availablein case of leakage : No data available

15. Regulatory Information

A. EINECS: European inventory of Existing commercail chemical substance

B. ELINCS: EU list of notified chemical substance

C. Others



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Korea- Regulation by occupational safety and health act: No data available

Korea- The chemicals control Act: No data available

Korea- Persistent organic pollutants control acts: No data available

U.S.A management information(OSHA Regulation): No data available

U.S.A management information(CERCLA Regulation): No data available

U.S.A management information(EPCRA 302 Regulation): No data available

U.S.A management information(EPCRA 304 Regulation): No data available

U.S.A management information(EPCRA 313 Regulation): No data available

U.S.A management information(Roterdame Protocol): No data available

U.S.A management information(Stockholme Protocol): No data available

U.S.A management information(Montreal Protocol): No data available

16. Other Information

A. Data Source: Korean Occupational Safety and Health Act.

B. Date of establishment: June, 3, 1996.

C. Revision Number and recent revision date: Rev. No.6 / Nobember, 16, 2017.

D. Others: 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. We shall not be held liable for any damage resulting from handling.