



Report No.: MND 230755 QD\_EU(C)1/2

Identification No.: MCHQD 2302077-01

## SDS

Product name: Aluminum phosphate

Report version: EU version

Prepared according to EU REACH regulation(EU regulation No. 2020/878)

Client: Shijiazhuang City Xinsheng Chemical Co., Ltd.

Client address: 8

Client contact: 15232160175

24-hour emergency telephone: 0311-88676378

Inspection date: 2023.11.24

SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

延新刚

Authorized Signatory

20231129

Notice: The CAS No. in the composition table of this report is the preferred reference parameter. If the chemical name is incomplete or does not meet requirements, the CAS No. will be used as the basis for evaluation; the client is responsible for the CAS No. provided.

The SDS information is obtained from sources believed to be reliable. However, no express or implied warranty is made for the data provided. The handling, storage, use or disposal conditions and methods of this product

None., Storage,

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## Safety Data Sheet(SDS)

## Aluminum phosphate

Version: V 2.0.0.2

Report No.: MND 230755 QD\_EU(C)1/2

: MCHQD 2302077-01

Preparation date: 2023/11/24

Revision date: 2023/11/28

\*Prepared according to EU REACH regulation(EU regulation No. 2020/878)

**1** Identification of the substance or mixture and supplier

## | 1.1 Product identifier

|                           |                     |
|---------------------------|---------------------|
| Chinese product name      | Aluminum phosphate  |
| English product name      | ALUMINIUM PHOSPHATE |
| <b>CAS No.</b>            | 7784-30-7           |
| <b>EC No.</b>             | 232-056-9           |
| Molecular formula         | AlPO <sub>4</sub>   |
| REACH registration number |                     |
| <b>UFI</b>                | Not applicable      |

## | 1.2 Applications Applications

|                 |                                      |
|-----------------|--------------------------------------|
| Recommended use | High-temperature resistant material. |
| Restricted use  | Please consult the manufacturer.     |

## | 1.3 SDS supplier information

|                 |   |
|-----------------|---|
| Company name    | Shijiazhuang City Xinsheng Chemical Co., Ltd. |
| Company address |   |
| Postal code     |   |
| Tel             | 15232160175                                   |
| Fax             |   |
| Email           | 495413802@QQ.com                              |

## | 1.4 Emergency telephone


|                     |               |
|---------------------|---------------|
| Emergency telephone | 0311-88676378 |
| Response time       | 24h           |

**2** Hazard identification

## | 2.1 CLP [(EC)No 1272/2008]Danger

|                               |
|-------------------------------|
| Skin corrosion/irritation 1 B |
| Eye damage/eye irritation 1   |

## | 2.2 Label elements

|           |   |
|-----------|---|
| Pictogram |  |
|-----------|---|

|             |        |
|-------------|--------|
| Signal word | Danger |
|-------------|--------|

## Hazard statements

|      |   |
|------|---|
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage               |

## Precautionary statements

## Prevention

|      |  |
|------|--|
| P260 | Do not inhale dust/fume.   |
| P264 | Wash face and hands thoroughly after handling.                             |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

## Response

|                |  |
|----------------|--|
| P310           | Call a poison center/doctor immediately.                                 |
| P321           | ().  |
| P363           | Wash contaminated clothing before reuse.                                 |
| P304+P340      | If inhaled: move person to fresh air and keep comfortable for breathing. |
| P301+P330+P331 | If swallowed: rinse mouth. Do not induce vomiting.                       |
| P303+P361+P353 | ()Contact,..   |
| P305+P351+P338 | Eyes Contact,, Eyes,,<br>Eyes,.  |

## Storage

|      |                  |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

## Disposal

|      |   |
|------|---|
| P501 | Dispose of contents/container according to local/regional/national/international regulations. |
|------|---|

## | 2.3 Danger

## · PBT and v Pv B assessment

| Component          | PBT/v Pv B assessment result [(EC) No 1907/2006] |
|--------------------|--|
| Aluminum phosphate | Not applicable                                   |

## · Endocrine disrupting properties assessment result

| Component          | Endocrine disrupting properties assessment result [(EU) No 2017/2100 (EU) No 2018/605] |
|--------------------|--|
| Aluminum phosphate | Insufficient data for assessment   |

·

|                |
|----------------|
| Not applicable |
|----------------|

### 3 Composition/Information on Ingredients

## | 3.1 Substance/

|           |
|-----------|
| Substance |
|-----------|

| Component          | Content/range | CLP            | Specific concentration limit(SCL)<br>M |
|--------------------|---------------|----------------|--|
| Aluminum phosphate | trade secret  | Not classified | -                                      |
| CAS: 7             |               |                |  |

|               |  |  |
|---------------|--|--|
| EC: 232-056-9 |  |  |
| Index No.: -  |  |  |

## 4 First-aid Measures

### | 4.1 First-aid Measures

General advice First-aid Measures, SDS.

Eyes Contact, seek medical attention.

Contact ,.

Ingestion .

Inhalation .

Protection of first-aiders .

### | 4.2 Most important acute and delayed symptoms/effects

1 Contact.

### | 4.3 Indication of immediate medical attention and special treatment

1 Treat symptomatically.

2 Symptoms may be delayed.

## 5 Fire-fighting Measures

### | 5.1 Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

### | 5.2 Special hazards arising from the substance or mixture

1 ,.

2 Fire may produce harmful combustible gases or vapors.

3 Heating or flame contact may cause expansion or explosive decomposition.

### | 5.3 Advice for firefighters

1 , (MSHA/NIOSH).

2 Fight fire from a safe distance with adequate protection.

3 Prevent fire-fighting water from contaminating surface and groundwater systems.

## 6 Accidental Release Measures

### | 6.1 Personal precautions, protective equipment and emergency procedures

1 None,.

2 Contact.

3 Contact Substance.

4 Ensure adequate ventilation. Remove all ignition sources. Take anti-static measures.

5 Evacuate personnel to a safe area, away from the spill and upwind.

6 Use personal protective equipment and avoid inhaling dust/fume.

### | 6.2 Environmental precautions

|   |   |
|---|---|
| 1 | If safe, prevent further leakage or spillage. |
| 2 | Avoid release to the environment.             |

### | 6.3 Methods and materials for containment and cleaning up

|   |   |
|---|---|
| 1 | ,,                                      |
| 2 | ,,                                      |
| 3 | Contact.                                |
| 4 | ,,                                      |
| 5 | Stop the source of leakage if possible. |
| 6 | Keep the spill area ventilated.         |
| 7 | .                                       |
| 8 | ,,,,                                    |
| 9 | , Disposal Considerations.              |

### | 6.4 Reference to other sections

|   |                                 |
|---|---------------------------------|
| 1 | SDS 8.                          |
| 2 | Disposal Considerations SDS 13. |

## **7** Handling and Storage

### | 7.1 Precautions for safe handling

#### · Protective measures

|   |  |
|---|--|
| 1 | Handle in a well-ventilated area.            |
| 2 | Wear suitable personal protective equipment. |
| 3 | Avoid skin and eye contact.                  |

#### · Fire prevention measures

|   |  |
|---|--|
| 1 | Keep away from heat, sparks, open flames and hot surfaces. |
|---|--|

#### · Measures to prevent aerosol and dust generation

|   |    |
|---|----|
| 1 | .  |
| 2 | ,, |

#### · Occupational hygiene advice

|   |            |
|---|------------|
| 1 | Substance. |
| 2 | .          |

### | 7.2 Conditions for safe storage, including incompatibilities

|   |   |
|---|---|
| 1 | Keep container tightly closed.                              |
| 2 | Store in a dry, cool and well-ventilated place.             |
| 3 | Keep away from heat, sparks, open flames and hot surfaces.  |
| 4 | Store away from incompatible materials and food containers. |

### | 7.3 Specific end uses

|   |                                 |
|---|---------------------------------|
| 1 | 1.2 Applications, Applications. |
|---|---------------------------------|

## **8** Exposure controls/

### | 8.1 Control parameters

Occupational exposure limits

· Biological limit values

Biological limit values

· Monitoring methods

- 1 EN 14042.
- 2 GBZ/T 300 Standard Substance.

· Derived no-effect level(DNEL)

| Component          | Exposure route | DNEL values for workers |      |      |            |
|--------------------|----------------|-------------------------|------|------|------------|
|                    |                | ( )                     | ( )  | ( )  | ( )        |
| Aluminum phosphate | Inhalation     | None                    | None | None | 4.98 mg/m3 |
|                    | Oral           | None                    | None | None | None       |
|                    | Dermal         | None                    | None | None | None       |

· Predicted no-effect concentration(PNEC)

Predicted no-effect concentration(PNEC)





8.2 Exposure controls

8.2.1 Engineering controls

- 1 ,.
- 2 .
- 3 ,.
- 4 .

8.2.2 Personal protective equipment

General requirements

Eye protection

Hand protection

Respiratory protection

Skin and body protection

**9** Physical and chemical properties

9.1 Physical and Chemical Properties

|   |         |
|---|---------|
| Physical state                              | powder  |
| Color                                       | white   |
| Odor  | None    |
| Odor threshold                              | None    |
| p H value                                   | 3.5~5.0 |
| Melting point/freezing point(°C)            | None    |
| Initial boiling point and boiling range(°C) | None    |

|                                     |                             |
|-------------------------------------|-----------------------------|
| Flash point(, °C)                   | Not applicable              |
| Evaporation rate                    | Not applicable              |
| Flammability                        | None                        |
| Upper/lower explosive limits (%)    | None                        |
| Vapor pressure                      | Not applicable              |
| ()Density(=1)                       | Not applicable              |
| Relative density(=1)                | (3.0±0.2) g/cm <sup>3</sup> |
| Solubility                          | None                        |
| Octanol/water partition coefficient | None                        |
| Auto-ignition temperature(°C)       | None                        |
| Decomposition temperature(°C)       | None                        |
| Kinematic viscosity                 | Not applicable              |
| Explosive properties                | None                        |
| Oxidizing properties                | None                        |
| Particle characteristics            | None                        |

9.2 Other Information

|                   |      |
|-------------------|------|
| Other Information | None |
|-------------------|------|

**10** Stability and Reactivity

Stability and Reactivity

|   |  |
|---|--|
| 10.1 Reactivity                         | Contact with incompatible materials may cause decomposition or other chemical reactions. |
| 10.2 Chemical stability                 | Stable under proper use and storage conditions.  |
| 10.3 Possibility of hazardous reactions | None   |
| 10.4 Conditions to avoid                | Incompatible materials, heat, flames and sparks.   |
| 10.5 Incompatible materials             | None   |
| 10.6 Hazardous decomposition products   | No hazardous decomposition products under normal storage and use conditions.             |

**11** Toxicological Information

11.1(EC)No 1272/2008 Danger

| Aluminum phosphate()                               |  |
|--|--|
| Skin corrosion/irritation                          | Causes severe skin burns and eye damage(1 B)                 |
| Serious eye damage/irritation                      | Causes serious eye damage(1)                                 |
| Skin sensitization                                 | Based on available data, classification criteria are not met |
| Respiratory sensitization                          | Based on available data, classification criteria are not met |
| Reproductive toxicity                              | Based on available data, classification criteria are not met |
| Specific target organ toxicity - Single exposure   | Based on available data, classification criteria are not met |
| Specific target organ toxicity - Repeated exposure | Based on available data, classification criteria are not met |
| Aspiration hazard                                  | Based on available data, classification criteria are not met |
| Germ cell mutagenicity                             | Based on available data, classification criteria are not met |
| Additional reproductive toxicity                   | Based on available data, classification criteria are not met |

Acute toxicity

| Component | LD 50(Oral) | LD 50(Dermal) | LC 50(Inhalation, 4 h) |
|-----------|-------------|---------------|------------------------|
|           |             |               |                        |

|                                   |                |      |
|-----------------------------------|----------------|------|
| Aluminum phosphate > 5000 mg/kg() | > 4640 mg/kg() | None |
|-----------------------------------|----------------|------|

## | Carcinogenicity

| Component          | IARC       | NTP        |
|--------------------|------------|------------|
| Aluminum phosphate | Not listed | Not listed |

## | 11.2 Danger

## | 11.2.1 Endocrine disrupting properties

| Component          | Endocrine disrupting properties |
|--------------------|---------------------------------|
| Aluminum phosphate | None                            |

## | 11.2.2 Other Information

| Other Information |
|-------------------|
|                   |

**12** Ecological Information

## | 12.1

## | Acute aquatic toxicity

| Component          | Fish                            | Crustaceans     | Algae/aquatic plants |
|--------------------|---------------------------------|-----------------|----------------------|
| Aluminum phosphate | LC <sub>5</sub><br>(96 h)() g/L | E<br>(48 h)() L | None                 |

## | Chronic aquatic toxicity

| Chronic aquatic toxicity |
|--------------------------|
| None                     |

## | 12.2 Persistence and degradability

| Persistence and degradability |
|-------------------------------|
| None                          |

## | 12.3 Bioaccumulative potential

| Bioaccumulative potential |
|---------------------------|
| None                      |

## | 12.4 Mobility in soil

| Mobility in soil |
|------------------|
| None             |

## | 12.5 PBT and v Pv B assessment

| Component          | PBT/v Pv B assessment result [(EC) No 1907/2006] |
|--------------------|--|
| Aluminum phosphate | Not applicable                                   |

## | 12.6 Endocrine disrupting properties

| Component          | Endocrine disrupting properties |
|--------------------|---------------------------------|
| Aluminum phosphate | None                            |


**13** Disposal

## | Disposal

|                        |  |
|------------------------|--|
| Waste chemical         | Consult national and local regulations before disposal. Incineration is recommended. |
| Contaminated packaging | Recycle if possible.   |
| Disposal precautions   | Store waste chemicals and contaminated packaging.                                    |

## 14 Transport Information

### | Labels and marks

|                 |   |
|-----------------|---|
| Transport label |  |
|-----------------|---|

### | (IMDG-CODE)

|                                |       |
|--------------------------------|-------|
| United Nations Danger (UN No.) | 3260  |
| UN proper shipping name        | None, |
| Danger                         | 8     |
| Danger                         | None  |
| Packing group                  | II    |
| Marine pollutant(/No)          | No    |

### | (IATA-DGR)

|                                |       |
|--------------------------------|-------|
| United Nations Danger (UN No.) | 3260  |
| UN proper shipping name        | None, |
| Danger                         | 8     |
| Danger                         | None  |
| Packing group                  | II    |

### | (UN-ADR)

|                                |       |
|--------------------------------|-------|
| United Nations Danger (UN No.) | 3260  |
| UN proper shipping name        | None, |
| Danger                         | 8     |
| Danger                         | None  |
| Packing group                  | II    |

### | IMO

|                  |      |
|------------------|------|
| · MARPOL II IBC  |      |
|                  | None |
| · MARPOL V IMSBC |      |
|                  | None |
| · IGC            |      |
|                  | None |

## 15 Regulatory Information

### | 15.1 Substance, /

### | International chemical inventories

| Component          | EC inventory | TSCA | DSL | IECSC | NZIoC | PICCS | KECI | AIIC | ENCS |
|--------------------|--------------|------|-----|-------|-------|-------|------|------|------|
| Aluminum phosphate | √            | √    | √   | √     | √     | √     | √    | √    | √    |

|                |   |
|----------------|---|
| 【EC inventory】 | EU chemical inventory                                     |
| 【TSCA】         | TSCA Substance  |
| 【DSL】          | Canadian Domestic Substances List                         |
| 【IECSC】        | China Inventory of Existing Chemical Substances           |
| 【NZIoC】        | New Zealand Inventory of Chemicals                        |
| 【PICCS】        | Philippine Inventory of Chemicals and Chemical Substances |
| 【KECI】         | Korea Existing Chemicals List                             |
| 【AIIC】         | Substance(AIIC)   |
| 【ENCS】         | Japan Existing and New Chemical Substances Inventory      |

### | EU regulated substance lists

| Component          | A | B | C | D | E | F | G |
|--------------------|---|---|---|---|---|---|---|
| Aluminum phosphate | x | x | x | √ | √ | x | x |

|     |   |
|-----|---|
| 【A】 | REACH High Substance(SVHC)                            |
| 【B】 | REACH Substance                                       |
| 【C】 | REACH Substance                                       |
| 【D】 | REACH Substance                                       |
| 【E】 | REACH Substance                                       |
| 【F】 | (Co RAP)Substance                                     |
| 【G】 | EU Water Framework Directive priority substances list |

:

“√” Indicates the substance is listed in the regulation

“x” Indicates no data available or not listed in the regulation

## 16 Other Information

### | Revision information

|                  |            |
|------------------|------------|
| Preparation date | 2023/11/24 |
| Revision date    | 2023/11/28 |
| Revision reason  |            |

### | References

- International Programme on Chemical Safety: International Chemical Safety Cards(ICSC);: <http://www.ilo.org/dyn/icsc/showcard.home>.
- International Agency for Research on Cancer,: <http://www.iarc.fr/>.
- OECD global chemicals information platform,: <https://www.echemportal.org/echemportal/substancesearch/index.action>.
- U.S. CAMEO chemicals database,: <http://cameochemicals.noaa.gov/search/simple>.
- U.S. National Library of Medicine:Chemical identification database,: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- U.S. Environmental Protection Agency: Integrated Risk Information System,: <http://cfpub.epa.gov/iris/>.
- U.S. Department of Transportation: Emergency Response Guidebook,: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- German GESTIS hazardous substances database,: <http://gestis-en.itrust.de/>.

### | Abbreviations

|         |                                      |           |   |
|---------|--------------------------------------|-----------|---|
| CAS     | CAS number                           | UN        | United Nations  |
| PC-STEL | Short-term exposure limit            | OECD      | Organisation for Economic Co-operation and Development    |
| PC-TWA  | Time-weighted average exposure limit | IMDG-CODE | International Maritime Dangerous Goods Code               |
| MAC     | Maximum allowable concentration      | IARC      | International Agency for Research on Cancer               |
| DNEL    | Derived no-effect level              | ICAO      | International Civil Aviation Organization                 |
| PNEC    | Predicted no-effect concentration    | IATA      | International Air Transport Association                   |
| NOEC    | No observed effect concentration     | ACGIH     | American Conference of Governmental Industrial Hygienists |

|                  |  |      |   |
|------------------|--|------|---|
| LC <sub>50</sub> | Median lethal concentration                  | NFPA | National Fire Protection Association                      |
| LD <sub>50</sub> | Median lethal dose                           | NTP  | National Toxicology Program                               |
| EC <sub>50</sub> | Effective concentration causing 50% response | PBT  | Persistent, bioaccumulative and toxic substance           |
| EC <sub>x</sub>  | Concentration causing x% response            | vPvB | Very persistent and very bioaccumulative substance        |
| P <sub>OW</sub>  | Octanol/water partition coefficient          | CMR  | Carcinogenic, teratogenic and reproductive toxic chemical |
| BCF              | Bioconcentration factor                      | RPE  | Respiratory protective equipment                          |
| ED               | Endocrine disruptor                          |      |   |

## | Disclaimer

Safety Data Sheet REACH,,

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