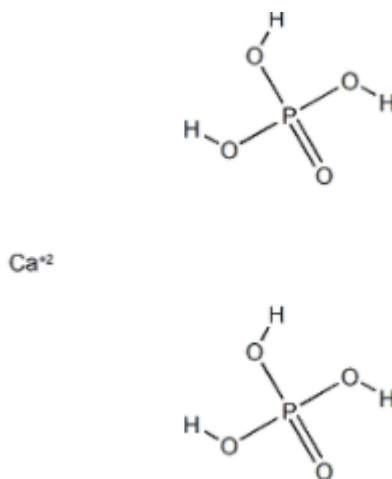


1. General Statement

Substance is obtained by treating phosphate rock with sulfuric acid or a mixture of sulfuric and phosphoric acids. Composed primarily of calcium phosphates and calcium sulfate. It does not mix well with water. It causes serious eye damage.

2. Chemical identity

Name : Superphosphates
 CAS number(s) : 8011-76-5
 EC number : 232-379-5
 Molecular formula : $\text{CaH}_6\text{O}_8\text{P}_2+2$
 Structure :



3. Uses and Benefits

This substance is used in fertilizers and pH regulators and water treatment products.

4. Physical / chemical properties

| Property | Value |
|------------------|-------------------|
| Physical state : | Solid |
| Colour : | Grey |
| Odour : | No data available |
| pH : | No data available |
| Melting point | No data available |
| Boiling point : | No data available |

GPS Safety Summary

Single Super Phosphate

CL-4: PUBLIC

| | |
|----------------------|---|
| Flash point : | No applicable |
| Density : | 2.41 g/cm ³ Type: 'density' Temp.: 20 °C |
| Solubility in Water: | Insoluble |

5. Health Effects

| Effect Assessment | Result |
|--|----------------------------|
| Acute toxicity (Oral / inhalation / dermal) | No |
| Irritation / corrosion Skin / eye/ respiratory tract | Causes serious eye damage. |
| Respiratory or skin sensitisation | No |
| Toxicity after repeated exposure Oral / inhalation / dermal | No |
| Genotoxicity / Mutagenicity | No |
| Carcinogenicity | No |
| Toxicity for reproduction | No |

6. Environmental Effects

| Effect Assessment | Result |
|-------------------------------|-------------------|
| Aquatic toxicity | No |
| Fate and behaviour | Result |
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |

7. Exposure

Human health

The substance causes serious eye damage. The most likely route of human exposure (workers) is through skin. In industrial settings, ingestion is not an anticipated route of exposure. Workers may be exposed during (un)loading, mixing, sampling, analysis or maintenance operations and particularly in case of batch processes. The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers.

Careless handling or accidental spillage of the chemical could result in exposure to potentially hazardous levels of chemicals.

GPS Safety Summary

Single Super Phosphate

CL-4: PUBLIC

Industrial workers should ensure that they follow the advice found in the extended safety data sheet (SDS).

Environment

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

Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies. Spillage shall be quickly collected in the event of an accidental release. More information about release measures and accidental release measures are available in the extended safety data sheet.

8. Risk Management Recommendations

Human health measures

| | | |
|--|---|---|
| Organizational | A basic standard of occupational hygiene is recommended. Ensure operatives are well informed of the hazards and trained to minimize exposures. Ensure regular inspection and maintenance of equipment and machines. Handle and store according to the indications of the Safety Data Sheet. | |
| Protection | Eye protection: | Safety glasses |
| | Skin and body protection: | Wear suitable protective clothing (Avoid inhalation or skin/eye contact) |
| | Respiratory protection: | High concentration or prolonged activity: self contained breathing apparatus. In the case of vapor formation: use a respirator with an approved filter |
| Engineering controls | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station. | |
| Environment protective measures | | |
| Product must not be released into water without pre-treatment. | | |

GPS Safety Summary

Single Super Phosphate

CL-4: PUBLIC

9. First-aid measures

First-aid measures after inhalation : Remove the person to fresh air and keep them comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Wash contaminated clothing before reuse.

First-aid measures after eye contact : If this product comes in contact with the eyes: Wash out immediately with fresh running water. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Seek medical attention without delay; if pain persists or recurs seek medical attention.

First-aid measures after ingestion : Call a poison centre or a doctor if you feel unwell.

10. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

Unsuitable extinguishing media : NA

Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Keep the container closed when not in use. Keep the container tightly closed and away from heat, sparks and flame.

Firefighting instructions : When silica dust is dispersed in air, firefighters should wear inhalation protection as hazardous substances from the fire may be adsorbed on the silica particles. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses.

11. Accidental release measures

Protective equipment : Wear Safety glasses. Self-contained breathing apparatus. Total impervious protective suits, gloves and boots must be worn to prevent any contact with the product. Wear recommended personal protective equipment.

Environmental precautions: Prevent entry to sewers and public waters. Avoid discharge to the atmosphere. Do not allow entering drains or water courses.

For containment : Stop leak without risks if possible. Collect spillage. Do not touch or walk on the spilled product.

GPS Safety Summary

Single Super Phosphate

CL-4: PUBLIC

12. Disposal consideration

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

13. Handling and storage

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothes. Wear personal protective equipment.

14. Classification and Labeling

Hazard pictograms (CLP)



GHS05

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H318 - Causes serious eye damage.

Precautionary statements (CLP)

: P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

15. Conclusion

Substance causes serious eye damage. The product is not considered harmful to aquatic organisms. Avoid contact with skin and eyes & wear personal protective equipment. Wash out immediately with fresh running water

GPS Safety Summary

Single Super Phosphate

CL-4: PUBLIC

16. Contact Information within company

Manufacturer

Aarti Industries Limited

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400080 Mumbai - India

T +91-22-6797-6666 - F +91-22-2565 3234

info@aarti-industries.com - www.aarti-industries.com

This GPS safety summary is intended to give general information about the health, safety and environmental and not intended to provide in-depth details. To obtain the most accurate and current information, consult the appropriate Safety Data Sheet (SDS) prior to use of the material named herein.