



SAFETY DATA SHEET

POTASSIUM ALUM

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

Date : March 2014

Synonyms : Aluminum Potassium Sulfate, Alum, Potash Alum, Potassium Aluminum Sulfate dodecahydrate.

Supplier : Tai Wei Industrial Co.,Ltd.

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2. HAZARDS IDENTIFICATION

Signal Words : None

Pictograms : None

GHS Classification : Not a dangerous substance according to GHS.

POTENTIAL HEALTH EFFECTS :

Eyes : May cause serious eye irritation.

Skin : May cause irritation.

Inhalation : May cause respiratory tract irritation.

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Precautionary : Wear protective Cloth, Gloves, Goggle.

CARCINOGENICITY : Not listed under OSHA, IARC, or NTP.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name : Potassium Alum

Synonyms : Aluminum Potassium Sulfate, Alum, Potash Alum, Potassium Aluminum Sulfate dodecahydrate.

CAS# : 7784-24-9 (dodecahydrate)

4. FIRST AID MEASURES

Eyes : Wash with plenty of water for at least 15 minutes, and seek the doctor if necessary.

Skin : Wash with plenty of water.

Inhalation : Remove to fresh air and keep at rest. Consult doctor if necessary.

Ingestion : If swallowed a lot, give large quantities of water or milk.
Seek medical attention.

5. FIRE FIGHTING MEASURES

Flash Point : Product is not flammable.

Flammable Limits : Product is not flammable.

Extinguishing Media Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures : Use fire fighting procedure that is appropriate to treat surrounding fire.

Specific hazards arising from the chemical : Emit toxic fumes under fire condition.
(Aluminum Oxide, Potassium Oxide, and Sulfur Oxide)

6. ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, sweep up, collect and place in a disposal container, Avoid run off into storm sewers and ditches which lead to waterways.

7. HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible

materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking. Please see section 8 for recommendations.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

1. RESPIRATORY PROTECTION : Use NIOSH/MSHA approved respirators.
 2. VENTILATION REQUIREMENTS : Ventilate as necessary to eliminate dust from the work area.
 3. SKIN AND EYE PROTECTION : Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.
 4. WORK, HYGIENIC PRACTICES : As required to protect skin and eyes from dust. Safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.
 5. EXPOSURE LIMITS : None Established
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : white crystal powder.

Odor : Odorless

Boiling Point : Over 180°C

Flash Point : Not Flammable

Vapor Pressure(MM Hg) : Not Applicable

Vapor Density(AIR= 1) : Not Applicable

Specific Gravity(H₂O= 1) : 1.72

Percent Volatile by Volume(%) : Not Applicable

Melting Point : 92~93°C

Evaporation Rate(Butyl Acetate= 1) : Not Applicable

Solubility in Water : Appreciable

Molecular Weight : 474.38

PH : 3.0 min. (100g/l, H₂O, 20°C)

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY : Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION : Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS : Sulfur Oxides, Aluminum Oxides,
Potassium Oxides.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS, GENERAL : Irritating to eyes or if inhaled as dust.

EYES : Risk of serious damage to eye. Cause redness, irritation and pain.

SKIN : Cause irritation, redness, and pain in contact with skin.

INHALATION : Irritating to the respiratory system, nose and throat.

HEALTH WARNINGS: When tested by OECD test method 405, the material
produced severe conjunctival irritation and corneal damage.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION : Avoid release to the environment. Discharge to
aquatic environments should be avoided as it may
lead to localised adverse effects. Material will
hydrolyse on contact with water to give dilute
sulphuric acid and gelatinous aluminium hydroxide.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS : Dispose of according to relevant local, state and federal
government regulations. Consult with appropriate
regulatory agencies if necessary.

14. TRANSPORTATION INFORMATION

GENERAL: Not classified as hazardous for transport, and Not dangerous goods.

15. REGULATORY INFORMATION

RISK PHRASES : R-41 Risk of serious damage to eyes.

SAFETY PHRASES: S-39 Wear eye/face protection. S-26 In case of contact with
eyes, rinse immediately with plenty of water and seek medical
advice.

16. OTHER

NFPA Ratings - Health - 1 Flammability - 0 Reactivity - 0

HMIS Ratings - Health - 1 Fire - 0 Reactivity - 0 Personal - E
