SDS

永华化学股份有限公司
YONGHUA CHEMICAL CO., LTD.

Potassium hydrogen sulfate

1. Product Identification

Synonyms: Potassium Bisulfate; Sulfuric Acid, Monopotassium Salt; Acid Potassium Sulfate; Monopotassium Sulfat

CAS No.: 7646-93-7

Manufacturer/supplier:

Yonghua Chemical Co., Ltd.

Address: Xiangqiao Village, Zhitang(Heshi)Town, Changshu City 215500,

Jiangsu Province, China

Emergency phone：0086 512 52549653

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2. Composition/Information on Ingredients

CAS No.	Chemical Name	Content	EINECS#
7646-93-7	Potassium hydrogen sulfate	≤100	231-594-1

Hazard Symbols: C

Risk Phrases: 34 37

3. Hazards Identification

EMERGENCY OVERVIEW

Causes burns. Irritating to respiratory system.Corrosive.Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye:

Contact with eyes may cause severe irritation, and possible eye burns.

Skin:

Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.

Ingestion:

Causes digestive tract burns with immediate pain, swelling of the throat, convulsions, and possible coma.

Inhalation:

May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract.

Chronic:

No information found.

4. First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Wash clothing before reuse. Destroy contaminated shoes.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician:

5. Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Contact with metals may evolve flammable hydrogen gas.

Extinguishing Media:

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation. Do not get water inside containers.

7. Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Do not get on skin or in eyes. Do not ingest or inhale. Discard contaminated shoes. Do not breathe dust or fumes.

Storage:

Store in a cool, dry place. Keep away from water. Corrosives area.

Do not store in metal containers.

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8. Exposure Controls/Personal Protection

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits CAS# 7646-93-7: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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9. Physical and Chemical Properties

Physical State: Solid

Color: white

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 214 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: N/A

Explosion Limits, upper: N/A

Decomposition Temperature: >210 deg C

Solubility in water: 490 g/l water (20 c)

Specific Gravity/Density: 2.3220g/cm3

Molecular Formula: HKO4S

Molecular Weight: 136.16

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10. Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, moisture, metals, excess heat.

Incompatibilities with Other Materials:

Strong bases; strong oxidizing agents; moist air or water Hazardous Decomposition Products:

Oxides of sulfur, oxides of potassium, sulfur oxides (SOx), including sulfur oxide and sulfur dioxide.

Hazardous Polymerization: Has not been reported.

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11. Toxicological Information

RTECS#:

CAS# 7646-93-7: TS7200000 LD50/LC50:

CAS# 7646-93-7: Oral, rat: LD50 = 2340 mg/kg.

Carcinogenicity:

Potassium Bisulfate, C.P. - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

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12. Ecological Information

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13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

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14. Transport Information

IATA

Shipping Name: POTASSIUM HYDROGEN SULPHATE

Hazard Class: 8

UN Number: 2509

Packing Group: II

IMO

Shipping Name: POTASSIUM HYDROGEN SULPHATE

Hazard Class: 8

UN Number: 2509

Packing Group: II

RID/ADR

Shipping Name: POTASSIUM HYDROGEN SULPHATE

Hazard Class: 8

UN Number: 2509

Packing group: II

15.Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 34 Causes burns.

R 37 Irritating to respiratory system.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately
with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves
and eye/face protection.

S 45 In case of accident or if you feel unwell, seek
medical advice immediately (show the label where
possible).

WGK (Water Danger/Protection)

CAS# 7646-93-7: 1

Canada

CAS# 7646-93-7 is listed on Canada's DSL List.

CAS# 7646-93-7 is listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 7646-93-7 is listed on the TSCA inventory.

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16. Other Information

Yonghua Chemical Co., Ltd. provides the information contained herein in good faith but makes no

representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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