SDS

永华化学股份有限公司
YONGHUA CHEMICAL CO., LTD.

Sodium bisulfate

1. Product Identification

Synonyms: Sodium hydrogen sulfate, monohydrate; Sulfuric acid, monosodium salt, hydrate; Sulfuric acid, monosodium salt, monohydrate

CAS No.: 10034-88-5

Manufacturer/supplier:
Yonghua Chemical Co., Ltd.
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2. Composition/Information on Ingredients

CAS No.	Chemical Name	Content	EINECS#
10034-88-5	Sodium bisulfate	≤100	600-069-2

Hazard Symbols: XI

Risk Phrases: 41

3. Hazards Identification

EMERGENCY OVERVIEW

Risk of serious damage to eyes.Corrosive.Moisture sensitive.The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye:

Causes eye burns. Risk of serious damage to eyes.

Skin:

Causes skin burns.

Ingestion:

May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns.

Inhalation:

May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract.

Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Chronic:

Repeated exposure may cause erosion of teeth. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

4. First Aid Measures

Eyes: Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

Skin:

Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion:

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

Inhalation:

Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

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.

Extinguishing Media:

Do NOT use water directly on fire. Use water spray to cool fire-exposed containers. Use dry chemical to fight fire. Do NOT get water inside containers.

6. Accidental Release Measures

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

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

Provide ventilation. Do not get water inside containers.

7. Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale.

Do not allow contact with water. Use only in a chemical fume hood.

Discard contaminated shoes. Keep from contact with moist air and steam.

Storage:

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

8. Exposure Controls/Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

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:

A respiratory protection program that meets OSHA's 29 CFR ??1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

9. Physical and Chemical Properties

Physical State: Crystals

Appearance: moist white crystals

Odor: Odorless.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 315 deg C

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: Soluble.

Specific Gravity/Density:

Molecular Formula: HNaO4S.H2O

Molecular Weight: 138.08

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10. Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, dust generation, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials:

Moisture, strong oxidizing agents, strong bases, hypochlorite.

Hazardous Decomposition Products:

Oxides of sulfur.

Hazardous Polymerization: Has not been reported.

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11. Toxicological Information

RTECS#:

CAS# 10034-88-5: VZ1870000 LD50/LC50:

Not available.

Carcinogenicity:

Sodium bisulfate monohydrate - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

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: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.*

Hazard Class: 8

UN Number: 3260

Packing Group: III

IMO

Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Hazard Class: 8

UN Number: 3260

Packing Group: III

RID/ADR

Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Dangerous Goods Code: 8(16C)

UN Number: 3260

Packing Group: III

15.Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 41 Risk of serious damage to eyes.

Safety Phrases:

S 24 Avoid contact with skin.

S 26 In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

CAS# 10034-88-5: No information available.

United Kingdom Occupational Exposure Limits

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 10034-88-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 10034-88-5 is not on the TSCA Inventory. It is a hydrate and

exempt from TSCA Inventory requirements (40CFR720.3(u)(2)).

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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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