



WATER SPECIALIST SUPPLY CO.,LTD.

Call : 034-440-851-3, 095-367-5790

Sales : 089-695-8181, 083-705-1000, 089-160-6121

MATERIAL SAFETY DATA SHEET

SODIUM BISULPHITE

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

WATER SPECIALIST SUPPLY CO.,LTD.

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PREPARED BY..... Water Specialist Supply CO.,LTD
PREPARATION DATE..... 1/August/16
PRODUCT NAME.....Sodium bisulphite.
CHEMICAL FORMULA.....NaHSO₃ .
MOLECULAR WEIGHT.....104.061.
CHEMICAL FAMILY..... Chemical compound .
EMERGENCY PHONE NO..... (+66)34-440-851 to 3 or (+66)95-367-5790

SECTION 02 : COMPOSITION/INFORMATION ON INGREDIENT

Content Ingredients %	Hazardous	C.A.S.#
Sodium bisulphite 100%	YES	7631-90-5
Toxicological Data on Ingredients: Sodium bisulfite: ORAL (LD50): Acute: 2000 mg/kg [Rat].		

SECTION 03: HAZARDS IDENTIFICATION

Potential Health Effects

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Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects: Slightly hazardous in case of inhalation (lung irritant).

CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to lungs, skin. Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 04 : FIRST AID MEASURES

INSTRUCTIONS:

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available

SECTION 05 : FIRE FIGHTING MEASURES

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

SECTION 06 : ACCIDENTAL RELEASE MEASURES

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

SECTION 07 : HANDLING AND STORAGE

Precautions:

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 08 : EXPOSE CONTROL/PERSONAL PROTECTION

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 5 (mg/m³) from OSHA (PEL) [United States] Inhalation TWA: 5 (mg/m³) from ACGIH (TLV) [United States] Inhalation TWA: 5 (mg/m³) [United States] Inhalation TWA: 5 (mg/m³) [United Kingdom (UK)] Inhalation TWA: 5 (mg/m³) [Canada] Inhalation Consult local authorities for acceptable exposure limits.

SECTION 09 : PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance:

Form :	Solid.
Colour:	White
Odour :	Characteristic.
pH value(at 50g/l in water):	4.0-5.0
Melting temperature:	-150C
Boiling temperature:	Not available
Ignition temperature:	Not available
Flash point :	Not available

Explosion limits : lower Not available

upper Not available

Density (20 C) : 1.45 g/cm³

Solubility in water(20 C) : 640 g/l

Thermal decomposition : >150C

Log P(oct) : -3.7

Solubility:Easily soluble in hot water. Soluble in cold water. Soluble in 3.5 parts cold water. Soluble in 2 parts boiling water. Soluble in 70 parts alcohol Insoluble in liquid chloride, ammonia.

SECTION 10:STABILITY AND REACTIVITY

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Slowly oxidized to sulfate on exposure to air.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Conditions to be avoided: Strong heating

Substances to be avoided :Acids ,Oxidizing Agent.

Hazardous decomposition product : In the event of fire :Sulfur dioxide

SECTION 11 : TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 2000 mg/kg [Rat].

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: lungs, skin.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May affect genetic material (mutagenic). May cause cancer based on animal test data. No human data found.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Causes eye irritation. Inhalation: Can cause respiratory tract irritation with cough, wheezing, and shortness of breath. It can produce anaphylaxis or other hypersensitivity reactions in some sensitized individuals. Ingestion: May be harmful if swallowed. It may cause nausea, vomiting, diarrhea, abdominal pain, gastric hemorrhage. Extremely large amounts may affect behavior/central nervous system and may produce central nervous system stimulation, irritation, seizures and may also cause, cyanosis, respiratory depression, apnea, circulatory disturbances, hypotension and cardiovascular collapse. May cause asthmatic reaction in sensitized individuals. Chronic Potential Health Effects: Inhalation: Prolonged or repeated inhalation may cause bronchitis to develop with cough, phlegm, and/or shortness of breath. It can cause an asthma-like allergy or other hypersensitivity reactions such as anaphylaxis, angioedema, bronchoconstriction, flushing, diaphoresis, urticaria, tachycardia, and hypotension in sensitized individuals. Futures exposures may cause shortness of breath, wheezing, cough, and/or chest tightness. Skin: Prolonged or repeated skin contact can cause dermatitis. Ingestion: Prolonged or repeated ingestion may affect the liver, and blood

SECTION 12 : ECOLOGICAL CONSIDERATION

Biological degradation :

Slightly eliminable(DOC reduction <20%)

Behavior in environmental compartment:

Distribution :log P (oct) : -3.7

Ecotoxic effects :

Biological effects : Toxic for aquatic organisms.

When introduced properly,no impairments in the function of adapted biological.

Wasted-water-treatment plants are to be expected.

Fish toxicity : *S.gairdneri* LC₅₀ :150-220 mg/l/96h :

Bacterial toxicity: *Ps.pundita* EC₅₀ :56mg/l/16H:

Daphnia toxicity : *Daphnia magna* EC₅₀ :89mg/l/24h :

Future ecologic data :

COD : 165 mg/g

ThOD: 154 mg/g

Do not allow to enter waters,water,waste water,or soil.

SECTION 13 : DISPOSAL CONSIDERATION

Product :

There are no uniform EC Regulations for the disposal of chemical or residues. Chemical residues generally count as special waste.The disposal of letter is regulated in EC member countries through corresponding laws and regulations.We recommend that you contact either the authorities in charge or approved waste disposal companies,who will advise you on how to dispose of special waste.

Packaging

Disposal in compliceance with official regulation. Handle contaminate packaging in the same way as the substance itself.If not officially specified differently,non-contaminated packaging may be treated like household waste or recycled.

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14 : TRANSPORT INFORMATION

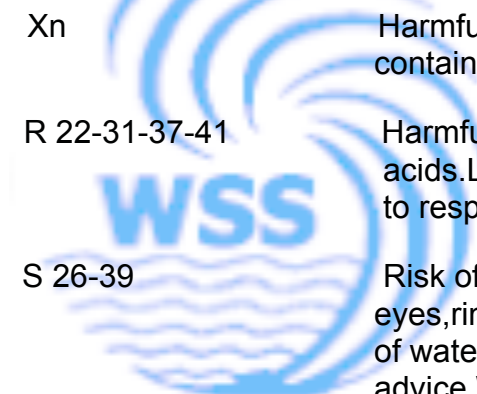
DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

SECTION 15 :REGULATORY INFORMATION

Labeling according to EC directives

The logo for Water Specialist Supply (WSS) is located in the background of the table. It features the letters 'WSS' in a bold, blue, sans-serif font. Above the letters are several curved, blue lines that resemble waves or a stylized sunburst. Below the letters are horizontal blue lines representing water.

Symbol	:	Xn	Harmful immediately and show this container Or label
R-phrases	:	R 22-31-37-41	Harmful if swallowed.Contact with acids.Liberates toxic gas.Irritating to respiratory to system,
S-phrases	:	S 26-39	Risk of serious damage to eyes,rinse immediately with Plenty of water and seek medical advice.Wear eye/Face protection

SECTION 16 :OTHER INFORMATION

Reason for alteration

hazardous properties cannot be excluded but are unlikely when the product is handle appropriately.

Disclaimer :

Water Specialist Supply(WSS THAILAND) CO.,Ltd provide information contained here in good faith but make no representation as to its comprehensiveness or accuracy.This document is intended only as a guide to the appropriate precautionary handing 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.