



WATER SPECIALIST SUPPLY CO.,LTD.

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MATERIAL SAFETY DATA SHEET

SODIUM BISULFATE

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 bisulfate.

OTHER NAME.....Sodium acid sulphate, GBS,
. globular sodium bisulphate, nitre cake,
. sodium hydrogen sulfate,
. sodium acid sulfate, and monosodium salt.

CHEMICAL FORMULA.....NaHSO₄ .

MOLECULAR WEIGHT.....120.06 g/mol

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>90%Min	YES	7681-38-1

SECTION 03: HAZARDS IDENTIFICATION

Inhalation :

Dust or mist inhalation may irritate nose, throat, and lungs and may cause respiratory tract irritation and lung edema.

Skin Contact / Absorption :

Prolonged contact may result in skin irritation such as redness, pain, and severe burns.

Eye Contact :

Can cause mild to severe irritation due to being an acidic irritant. May cause abrasive damage due to crystalline dust. May cause burns if eyes are not flushed with water.

Ingestion :

Small amounts are not likely to cause injury, however, large amounts ingested can cause severe burns of mouth, throat, and stomach. Also may cause sore throat, vomiting, and diarrhea.

Exposure Limits :

No established limits. Treat as nuisance particulates. ACGIH-TLV: 10mg/m³ (total respirable dust)

SECTION 04 : FIRST AID MEASURES

Inhalation :

Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention if difficulties persist.

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.

Eye Contact

Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention if irritation persists.

Ingestion

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Additional Information:

Not Available

SECTION 05 : FIRE FIGHTING MEASURES

Conditions of Flammability:	Not a specific fire or explosive hazard.
Means of Extinction :	Product does not burn. Use appropriate extinguishing media for material that is supplying the fuel to the fire. Avoid contacting material with water as it readily dissolves in water to form a weak acid solution.
Flash Points:	Not applicable.
Auto-ignition Temperature:	Not Applicable.
Upper Flammable Limit :	Not Applicable.
Lower Flammable Limit :	Not Applicable.
Hazardous Combustible Products: .	When heated to decomposition at 430°C, oxides of sulphur are formed.
Special Fire Fighting Procedures:	Wear NIOSH-approved self-contained breathing apparatus and protective clothing. If water has to be used, wear acid protective equipment. A self-contained breathing apparatus should be worn if temperatures > 430°C.
Explosion Hazards:	None

SECTION 06 : ACCIDENTAL RELEASE MEASURES

Leak / Spill :

Wear appropriate personal protective equipment as suggested in Section 8. Vacuum or shovel spilled material and place into disposal container. Dilute residual material with water and discharge as per local, provincial and/or federal regulations permit.

Deactivating Materials :

Not Available

SECTION 07 : HANDLING AND STORAGE

Handling Procedures :

Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid breathing in dust.

Storage: Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from incompatible materials. Material is hygroscopic, do not store material where moisture is present. Storage near strong alkalis must be avoided.

SECTION 08 : EXPOSE CONTROL/PERSONAL PROTECTION

Protective Equipment

Eyes :

Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Respiratory :

For dusty areas $> 10\text{mg}/\text{m}^3$, NIOSH-approved respirator for dust respirator should be worn.

Clothing :

Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing and dry thoroughly before reuse.

Footwear :

No special footwear is required other than what is mandated at place of work.

Engineering Controls :

Ventilation Requirements :

Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided to keep particulate below $10\text{mg}/\text{m}^3$. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other : Not Available

SECTION 09 :PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance:

Form :	Solid.
Colour:	Off-White powder.
Odour :	Odourless.
Odour Threshold :	Not Available.
Specific Gravity (Water=1):	Not Available.
Vapour Pressure (mm Hg, 20°C):	Not Available.
Evaporation Rate :	Not Available.
Boiling temperature:	Not available.
Freeze/Melting Point:	177°C
pH:	<1 (5% solution)
Water/Oil Distribution Coefficient:	Not available.
Bulk Density:	1.281-1.361 g/cm ³
% Volatiles by Volume :	Not Available.
Solubility in Water:	Partially soluble in hot and cold water.
Molecular Formula :	NaHSO ₄
Molecular Weight :	120.06

SECTION 10:STABILITY AND REACTIVITY

Stability:

Stable under normal conditions. Avoid storage where moisture is present.

Instability Temperature:

Incompatible with strong bases, hypochlorites and ammonium compounds.

Polymerization: Will not occur.

Hazardous decomposition product :Will dissolve in water to form a weak sulphuric solution. Upon decomposition due to extreme heating, oxides of sulphur may form. Reacts with strong bases to evolve heat. Reacts with hypochlorites to form poisonous chlorine gas.

SECTION 11 : TOXICOLOGICAL INFORMATION

Irritancy :	Mild irritant
Sensitization :	Not Available.
Chronic/Acute Effects:	None other than what is listed in Section 3.
Synergistic Materials :	Not Available.
Animal Toxicity Data:	LD50(oral, rat): 2800mg/kg.
Carcinogenicity :	Not considered to be carcinogenic by IARC, NTP, OSHA and ACGIH.
Reproductive Toxicity:	Not Available.
Teratogenicity :	Not Available.
Mutagenicity:	Not Available.

SECTION 12 : ECOLOGICAL CONSIDERATION

Fish Toxicity:

Product dissolves readily in water to form a weak acid, a 0.05% or greater (by weight) solution of this product is very likely to be harmful to aquatic life.

Biodegradability:

Material will decompose in soil. No adverse effects have been noticed when applied directly to crops.

Environmental Effects:

Although material will decompose in soil, excessive quantities should not be applied. No other significant effects or hazards are known.

SECTION 13 : DISPOSAL CONSIDERATION

Waste Disposal:

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

SECTION 14 : TRANSPORT INFORMATION

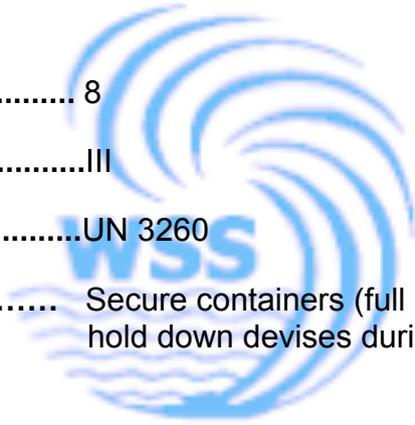
TDG Classification

Class..... 8

Group.....III

PIN Number.....UN 3260

Other..... Secure containers (full and/or empty) with suitable hold down devices during shipment.



SECTION 15 :REGULATORY INFORMATION

WHMIS Classification.....D2



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.