YANTAI SODIUM METABISULPHITE CO., LTD

ROOM 1010,NO.2 YANCHANG STREET FUSHAN DISTRICT,YANTAI,CHINA.

CERTIFICATE OF ANALYSIS

COMMODITY: SODIUM METABISULPHITE (TECHNICAL GRADE)
IUPAC NAME: SODIUM METABISULFITE
CAS NO. 7681-57-4
PARTY: SURAJ CHEMICALS
QUANTITY:27.5MT

HS CODE:2832.1000

Project	Target (superior product)	Test Result
Content($Na_2S_2O_{5)}$	97.0%Min	97.1%
SO_2	65.0% Min	65.54%
Iron（Fe）	0.003%Max	0.0012%
As	0.0001% Max	0.0001%
Water Insoluble Matter	0.05% Max	0.02%

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YANTAI SODIUM METABISULPHITE CO., LTD

Material Safety Data Sheet

Sodium metabisulphite

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium metabisulphite

Catalog Numbers: AC171490000, AC171490025, AC419580000, AC419580010, AC419580050, S242-12, S242-212, S242-400LB, S242-500, S243-10, S244-3, S244-500

Synonyms: Sodium pyrosulfite; Disodium disulfite; Pyrosulfurous acid, disodium salt; Disodium metabisulphite; Disodium pyrosulfite; Sodium Metabisulfite.

Company Identification:

YANTAI SODIUM METABISULPHITE CO., LTD.

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7681-57-4	**Sodium metabisulfite**	≧97	231-673-0
7732-18-5	**Water**	≦3	231-791-2

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white to yellow solid.

Danger! May cause allergic respiratory and skin reaction. May cause severe eye irritation and possible injury. May be harmful if swallowed. May cause skin and respiratory tract irritation. Contact with acids liberates toxic gas, sulfur dioxide. Slowly oxidized to the sulfate on exposure to air and moisture. Corrosive to aluminum in aqueous solution.

Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye: May cause severe eye irritation and possible injury.

Skin: May cause skin irritation. May be harmful if absorbed through the skin. May cause an allergic reaction in certain individuals.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. Sulfite compounds may cause a severe allergic reaction in sensitive individuals and some asthmatics. **Sodium metabisulfite** used as a preservative in vinegar provoked severe asthma in a 67-year-old woman who ate salad with vinegar-based dressing. (ACGIH Documentation of the TLVs)
Inhalation: May cause allergic respiratory reaction. May cause effects similar to those described for ingestion. Inhalation of dust may cause respiratory tract irritation.
Chronic: Prolonged or repeated skin contact may cause dermatitis. Repeated or prolonged exposure may cause allergic reactions in sensitive individuals.

-o not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treat symptomatically and supportively.

Section 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. Substance is noncombustible.
Extinguishing Media: Use water fog, dry chemical, carbon dioxide, or regular foam.
Flash Point: Not applicable.
Autoignition Temperature: Not applicable.
Explosion Limits, Lower: Not available.
Upper: Not available.
NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 0

Section 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.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Keep container tightly closed. Avoid breathing dust. Do not get in

eyes. Avoid contact with skin and clothing.
Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong acids. Do not store in aluminum containers. Store protected from moisture. Keep away from oxidizing agents.

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

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium metabisulfite	5 mg/m3 TWA	5 mg/m3 TWA	none listed
Sulfur dioxide	2 ppm TWA; 5 ppm STEL	2 ppm TWA; 5 mg/m3 TWA 100 ppm IDLH	5 ppm TWA; 13 mg/m3 TWA

OSHA Vacated PELs: Sodium metabisulfite: 5 mg/m3 TWA Sulfur dioxide: 2 ppm TWA; 5 mg/m3 TWA
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.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Appearance: white to yellow
Odor: sulfur dioxide odor
pH: acid in soln
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: Not available.

Freezing/Melting Point:150 deg C
Decomposition Temperature:150 deg C
Solubility: Soluble.
Specific Gravity/Density:1.4
Molecular Formula: Na2S2O5
Molecular Weight:190.11

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Slowly oxidized to the sulfate on exposure to air and moisture.
Conditions to Avoid: Dust generation, moisture, exposure to air, excess heat, Corrosive to aluminum in aqueous solution..
Incompatibilities with Other Materials: Strong oxidizing agents, acids.
Hazardous Decomposition Products: Oxides of sulfur, toxic fumes of **sodium** oxide.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 7681-57-4: UX8225000
CAS# 7446-09-5: WS4550000
LD50/LC50:
CAS# 7681-57-4:
Dermal, guinea pig: LD50 = >1 gm/kg;
Draize test, rabbit, eye: 100 mg/24H Mild;
Draize test, rabbit, skin: 500 mg;
Oral, rat: LD50 = 1131 mg/kg;
Skin, rat: LD50 = >2 gm/kg;
.

CAS# 7446-09-5:
Draize test, rabbit, eye: 6 ppm/32D Mild;
Inhalation, mouse: LC50 = 3000 ppm/30M;
Inhalation, rat: LC50 = 2520 ppm/1H;
Inhalation, rat: LC50 = 2168 mg/m3;
.
Carcinogenicity:
CAS# 7681-57-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 7446-09-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: Two cases of occupational asthma in laundry workers exposed to **sodium metabisulfite** were reported. **Sodium metabisulfite** may be considered to be the anhydride of **sodium** bisulfite and is the chief constituent of commercial

dry **sodium** bisulfite.
Teratogenicity: No information found
Reproductive Effects: See actual entry in RTECS for complete information.
Mutagenicity: See actual entry in RTECS for complete information.
Neurotoxicity: No information found
Other Studies:

Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated	Not Regulated
Hazard Class:		
UN Number:		
Packing Group:		

Not dangerous for conveyance under UN, IMO, ADR/RID and IATA/ICAO code.

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7681-57-4 is listed on the TSCA inventory.

CAS# 7446-09-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

CAS# 7446-09-5: 500 lb TPQ

SARA Codes

CAS # 7681-57-4: immediate.

CAS # 7446-09-5: immediate, sudden release of pressure.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

CAS# 7446-09-5 is considered highly hazardous by OSHA.

STATE

CAS# 7681-57-4 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 7446-09-5 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

R 41 Risk of serious damage to eyes.

Safety Phrases:

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

S 39 Wear eye/face protection.

S 46 If swallowed, seek medical advice immediately and show this con tainer or label.

WGK (Water Danger/Protection)

CAS# 7681-57-4: 1

CAS# 7446-09-5: 1

Canada - DSL/NDSL

CAS# 7681-57-4 is listed on Canada's DSL List.

CAS# 7446-09-5 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the **MSDS** contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 7681-57-4 is listed on the Canadian Ingredient Disclosure List.

CAS# 7446-09-5 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 7/27/2022

Revision #7 Date: 3/15/2023