

TOLL INTERNATIONAL CO., LIMITED

FLAT / ROOM 1006, 10/F, PO YIP BUILDING 23, HING YIP STREET, KWUN TONG,
HONGKONG

Sodium metabisulphite MSDS

Name:	Sodium metabisulphite Material Safety Data Sheet
Synonym:	Sodium pyrosulfite; Disodium disulfite; Pyrosulfurous acid, disodium salt; Disodium metabisulphite; Disodium pyrosulfite
CAS:	7681-57-4

➤ Section 1 - Chemical Product

MSDS Name: Sodium metabisulphite

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

➤ Section 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. Contact with acids liberates toxic gas. Risk of serious damage to eyes.

Potential Health Effects

Pictogram:



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.

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.

➤ Section 3 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
7681-57-4	Sodium metabisulphite	>97	231-673-0

Text for R-phrases: see Section 16

Hazard Symbols: XN

➔ **Section 4 - FIRST AID MEASURES**

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

Skin:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion:

If swallowed, do 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.

➔ **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 CAS# 7446-09-5: United States OSHA: 5 ppm TWA; 13 mg/m³ TWA Belgium – TWA: 2 ppm VLE; 5.3 mg/m³ VLE Belgium – STEL: 5 ppm VLE; 13 mg/m³ VLE France – VME: 2 ppm VME; 5 mg/m³ VME France – VLE: 5 ppm VLE; 10 mg/m³ VLE Germany: 1 ppm TWA (paper production, chemical and pharmaceutical industries); 2.5 mg/m³ Malaysia: 2 ppm TWA; 5.2 mg/m³ TWA Netherlands: 2 ppm MAC; 5 mg/m³ MAC Russia: 10 mg/m³ TWA Spain: 2 ppm VLA-ED; 5.3 mg/m³ VLA-ED Spain: 5 ppm VLA-EC; 13 mg/m³ VLA-EC CAS# 7681-57-4: United Kingdom, WEL – TWA: 5 mg/m³ TWA United Kingdom, WEL – STEL: 15 mg/m³ STEL Belgium – TWA: 5 mg/m³ VLE France – VME: 5 mg/m³ VME Malaysia: 5 mg/m³ TWA Netherlands: 5 mg/m³ MAC Spain: 5 mg/m³ VLA-ED 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

Color: white to yellow

Odor: sulfur dioxide odor

pH: acid in soln

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 150 deg C (dec)

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: 150 deg C

Solubility in water: 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# 7446-09-5: WS4550000 CAS# 7681-57-4: UX8225000 LD50/LC50:

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.

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.

Not available.

Carcinogenicity:

Sulfur dioxide - Not listed by ACGIH, IARC, or NTP.

Sodium metabisulphite - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

➤ Section 12 - ECOLOGICAL INFORMATION

➤ Section 13 - DISPOSAL CONSIDERATIONS

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

➤ Section 14 - TRANSPORT INFORMATION

IATA

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

IMO

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

RID/ADR

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing group:

➔ **Section 15 – REGULATORY INFORMATION**

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 container or label.

WGK (Water Danger/Protection)

CAS# 7446-09-5: 1

CAS# 7681-57-4: 1

Canada

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

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

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

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

US FEDERAL

TSCA

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

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