

**Distributed by:**  
**Parker Hannifin Corp./Water Purification**

2630 E. El Presidio Street  
 Carson, CA 90810

**Material Safety Data Sheet**

(Revision Date: 03/11/14)

**Section 1: Chemical Product and Company Identification**

**Product Name: Preservative #3**

**Catalog Number: Proprietary Formula**

**Contact Information:**

**Parker Hannifin Corp. /  
 Water Purification**

**2630 E. El Presidio**

**Carson, CA 90810**

**(310) 608-5600**

**24 Hr. Emergency: 1-800-535-5053**

**Section 2: Composition and Information on Ingredients**

Name	% by Weight	CAS RN #	Hazardous
Sodium metabisulfite	>85%	7681-57-4	No

**Section 3: Hazards Identification**

**Precautionary Overview:** White powder or crystals; sulfur dioxide odor. Irritating to eyes/skin/respiratory tract. Also causes: asthmatic reaction in some individuals.

**Potential Acute Health Effects:**

**Organs:** Respiratory tract, skin, eyes.

**Entry Routes:** Inhalation, skin and eye contact. Respiratory tract irritation may occur. Some individuals have experienced an asthmatic reaction after ingestion of food or medicine that contained sodium metabisulfite as a preservative or antioxidant.

**Section 4: First Aid Measures**

**Inhalation:** Remove to fresh air. Encourage patient to blow nose to ensure clear breathing passages. Rinse mouth with water. Consider drinking water to remove dust from throat. Seek medical attention if irritation or discomfort persist.

**Eye Contact:** Immediately hold the eyes open and flush continuously for at least 15 minutes with fresh running water. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids.

Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**Telephone: (310) 608-5600**

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**Skin Contact:** Brush off dust. Wash affected areas thoroughly with water (and soap if available). Seek medical attention in event of irritation.

**Ingestion:** Rinse mouth out with plenty of water. Contact a Poison Control Center. Do NOT induce vomiting. Give a glass of water.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

**Note to Physicians:** Treat symptomatically. Simple antacid powders should be useful in the case of ingestion.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** Noncombustible

**Auto-Ignition Temperature:** Noncombustible.

**Flash Point:** N/A

**Flammable Limits:** N/A

**Products of Combustion:** NA

**Fire Fighting Media and Instructions:** *Do not* release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

## Section 6: Accidental Release Measures

Use personal protective equipment. Avoid dust formation. Avoid breathing dust and skin/eye contact. Ensure adequate ventilation. Evacuate personnel to safe areas.

Do not let product enter drains.

Pick-up and arrange for disposal without creating dust. Keep in a suitable, closed containers for disposal.

## Section 7: Handling and Storage

### HANDLING:

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### STORAGE:

Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive. Air sensitive.

## Section 8: Exposure Controls/ Personal Protection

**Engineering Controls:** Enclose all processes where possible to prevent dispersion of sodium metabisulfite dusts into air. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:** Consider preplacement or periodic medical exams of exposed workers. Any worker that develops asthmatic reactions to sodium metabisulfite should be prevented from further exposures.

**Personal Protective Clothing/Equipment:** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Exposure Limits:**

TWA: 5 (mg/m<sup>3</sup>) [United Kingdom (UK)]

TWA: 5 (mg/m<sup>3</sup>) from ACGIH (TLV) [United States]

TWA: 5 (mg/m<sup>3</sup>) from NIOSH [United States] Consult local authorities for acceptable exposure limits.

**Other:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove sodium metabisulfite from your shoes and clean personal protective equipment. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

## Section 9: Physical and Chemical Properties

**Physical State and Appearance:** Colorless crystals or white to yellowish powder with a sulfur (rotten eggs) odor

**Odor:** sulfur dioxide

**Vapor Pressure:** N/A

**Solubility:** Soluble, 54 g/100 cc at 68 °F (20 °C); 81.7

**Density:** 1.4 g/cm<sup>3</sup>

**pH:** 4.0 (1% aqueous solution)

**Boiling Point:** N/A

**% Volatiles by volume:** N/A

**Melting Point:** >302 °F (>150 °C)

## Section 10: Stability and Reactivity Data

**Stability:** Stable under recommended storage conditions. Upon exposure to air and moisture, sodium metabisulfite slowly oxidizes to the sulfate. Hazardous polymerization does not occur. Exposure to incompatibles and dispersion of dusts into air.

**Hazardous Decomposition Products:** Oxides of Carbon, Nitrogen, Phosphorus and Sodium.

**Hazardous Polymerization:** will not occur.

**Incompatibilities:** Thermal oxidative decomposition of sodium metabisulfite can produce sulfur oxide(s) and sodium oxide(s).

## Section 11: Toxicological Information

### Toxicological Data:

Rat, oral: 75 mg/kg administered continuously for 15 days caused kidney, ureter, and bladder changes and biochemical changes including dehydrogenase and phosphatases.

Rat, oral: 20 g/kg taken for multigenerations resulted in stillbirths.

Reproductive Effects - Hamster, ovary cell: 200 µg/L caused sister chromatid exchange.

Rat, intravenous, LD<sub>50</sub>: 115 mg/kg

**Carcinogenicity:** 3 (not classifiable for humans)

## Section 12: Ecological Information

**Environmental Fate:** If released to water, sodium metabisulfite reacts chemically with dissolved oxygen.

**Ecotoxicity:** Mosquito fish, TL<sub>m</sub> = 240 ppm (24, 48, and 96 hr), fresh water.

## Section 13: Disposal Considerations

**Disposal:** Treat waste water with sodium hypochlorite to pH 6 to 11 followed by treatment with carbon dioxide. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local 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****EPA Regulations:****RCRA 40 CFR:** Not listed**CERCLA 40 CFR 302.4:** Not listed**SARA 40 CFR 372.65:** Not listed**SARA EHS 40 CFR 355:** Not listed**TSCA:** Listed**OSHA:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).**EINECS:** This product is on the European Inventory of Existing Commercial Chemical Substances.**Section 16: Other Information****NFPA Rating:****Health: 2****Flammability: 0****Reactivity: 0****Label Precautions:**

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

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