



# MSDS G44

Effective Date:  
08-JUNE-2009

This Material Safety Data Sheet applies to the following Baldwin Filters Part Numbers:

<b>BW5136</b>	<b>BW5141</b>	<b>BW5182</b>
<b>BW5137</b>	<b>BW5142</b>	<b>BW5183</b>
<b>BW5138</b>	<b>BW5143</b>	
<b>BW5139</b>	<b>BW5178</b>	
<b>BW5140</b>	<b>BW5179</b>	

## I. Identification

**Emergency Only Telephone:** (800) 424-9300 Inside the US, Canada and the U.S.  
Virgin Islands  
(703) 527-3887 Outside the US (collect calls accepted)

**Information Telephone:** (800) 822-5394

**Chemical Family:** Alkali Metal Salts  
**DOT Hazard Class:** Corrosive solid, basic, inorganic, n.o.s., 8, UN3262, PGIII  
(Contains: Disodium trioxosilicate, Sodium tetraborate)  
**DOT Shipping Name:** ORM-D

## II. Hazardous Ingredients

<u>Material</u>	<u>%</u>	<u>TLV (Units)</u>	<u>CAS #</u>
Disodium Trioxosilicate (Sodium Metasilicate)	20-30	ND	6834-92-0
Boric Acid (Sodium Tetraborate)	7-10	1mg/m <sup>3</sup>	12179-04-3
Sodium Nitrite	50-60	ND	7632-00-0
Tolyltriazole	10-15	ND	29385-43-1

## III. Physical Data

**Density:** 55.000 lb/cu.  
**Freeze Point:** NA  
**Viscosity (cps 70F, 21C):** NA  
**Vapor Pressure (mmHg):** < 0.1  
**Vapor Density (air = 1):** < 1.00  
**Solubility in Water:** ~10.0%  
**pH (1.0% soln):** ~10.5  
**Flash Point P-M (CC):** > 200F > 93C  
**Evaporation Rate (ether = 1):** < 1.00  
**Physical State:** Pellet  
**Odor:** Slight  
**Appearance:** White to Yellow

#### **IV. Fire and Explosion Hazard Data**

**Flash Point (Test Method):** N/A  
**Flammable Limits in Air (% by volume):** **Lower** = ND **Upper** = ND  
**Extinguishing Media:** Water, CO<sub>2</sub>, Chemical Foam  
**Special Firefighting Procedures:** Wear self-contained breathing apparatus. Contact with strong acids or thermal decomposition may produce toxic fumes.  
**Unusual Fire and Explosion Hazards:** None

#### **V. Reactivity Data**

**Stability:** Stable under normal storage conditions.  
**Incompatibility (materials to avoid):** Strong acids, strong oxidizers, extreme heat, reducing agents, moisture.  
**Hazardous Polymerization:** Will not occur.  
**Hazardous Combustion or Decomposition Products:** Oxides of carbon and nitrogen.

#### **VI. Health Hazard Data**

**Ingredients Listed as Carcinogenic in NTP, IARC or OSHA (specify):** None

##### **Acute Effects of Overexposure**

**Eye Contact:** Corrosive. Causes burns and severe damage to delicate eye tissue. Contact may cause blindness.  
**Skin Contact:** Corrosive. May cause irritating and severe burns to the skin.  
**Inhalation:** Corrosive. May cause burns to respiratory tract.  
**Ingestion:** Corrosive. May be fatal if swallowed. May cause burns to gastrointestinal tract. May cause nausea and vomiting.  
**Principal Routes of Absorption:** Skin contact, eye contact, ingestion, inhalations.

##### **Emergency and First Aid Procedures**

**Eyes:** Flush at once with plenty of cool water for 15 minutes. Contact a physician.  
**Skin:** Flush affected area with plenty of water. If irritation develops, consult a physician.  
**Inhalation:** Move victim to fresh air. If symptoms persist, consult a physician.  
**Ingestion:** Seek medical attention immediately. Give large quantities of water to dilute. Never give anything by mouth to an unconscious person.

#### **VII. Spill or Leak Procedures**

**Steps to be taken if Material is Released or Spilled:** Return dry material to original container, or shovel into steel container for disposal. Flush residue with plenty of water. Spill material will become slippery when water is added.  
**Waste Disposal Method:** In accordance with federal, state and local guidelines.

#### **VIII. Special Protection Information**

**Ventilation Requirements:** Local exhaust sufficient to maintain below TLV.

## Recommended Personal Protective Equipment

- Respiratory:** A respiratory protection program that meets OSHA's 29CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Use air purifying respirators within use limitations associated with the equipment or else use supplied air-respirators. If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.
- Eyes:** Chemical splash goggles.
- Gloves:** Impervious.
- Other Clothing and Equipment:** Other protective clothing depending on degree of exposure.

## IX. Handling and Storage

- Handling:** Normal chemical handling.
- Storage:** Keep containers closed when not in use. Keep dry. Do not store at elevated temperatures nor near oxidizers.

## X. Toxicological Information

- Oral LD50 Rat:** ~190 mg/kg (estimated value)
- Dermal LD50 Rabbit:** > 2,000 mg/kg (estimated value)

## XI. Regulatory Information

- TSCA:** All components of this product are listed in the TSCA inventory.
- CERLA and/or SARA REPORTABLE QUANTITY (RQ):** 224 pounds due to Sodium Nitrite.
- SARA SECTION 312 HAZARD CLASS:** Immediate (acute); Delayed (chronic); Fire.
- SARA SECTION 302 CHEMICALS:** No regulated constituent present.
- SARA SECTION 313 CHEMICALS:**

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>RANGE</u>
7632-00-0	Sodium Nitrite	41.0 - 50.0%

### **CALIFORNIA REGULATORY INFORMATION:**

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:** No regulated constituent present.

**MICHIGAN REGULATORY INFORMATION:** No regulated constituent present.

## XII. NFPA / HMIS

Health	2	Slight Hazard
Fire	0	Slight Hazard
Reactivity	0	Minimal Hazard
Special	None	No Special Hazard
Protective Equipment <sup>(1)</sup>	C	Goggles, Gloves

<sup>(1)</sup> refer to section VIII of MSDS for additional protective equipment recommendations.

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