



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

CS5008  
CS5009  
CS5010  
CS5011

## I. Identification

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

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

## II. Hazardous Ingredients

**Physical State and Appearance:** Liquid  
**Emergency Overview:** WARNING! Causes eye irritation; may cause irritation to skin and respiratory tract.

**Routes of Entry:** Skin, eye, ingestion and inhalation contact.

**Potential Acute Health Effects**

**Eyes:** Causes eye irritation.  
**Skin:** May cause skin irritation.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** May cause respiratory tract irritation.

**Potential Chronic Health Effects:** Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

**Mutagenic Effects:** Not available.  
**Teratogenic Effects:** Not available.

## III. Composition/Information on Ingredients

<u>Material</u>	<u>CAS #</u>	<u>% by Weight</u>
Sodium Tetraborate Pentahydrate	12179-04-3	< 5
Sodium Nitrite	7632-00-0	< 5
Sodium Metasilicate	6834-92-0	< 5
Sodium Mercaptobenzotriazole	26249-01-4	< 5

**See Section VIII for Exposure Limits.**  
**See Section Xi for Toxicological Data.**

**Section III Notes:** This product has a Reportable Quantity (RQ) for Sodium Nitrite for containers greater than 2500 pounds.

#### **IV. First Aid Measures**

**Eye Contact:** In case of eye contact, flush at once with plenty of water for at least 15 minutes. Remove contacts if easy to do so. Contact a physician at once.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.

**Ingestion:** If large quantities of this material are swallowed, contact a physician at once. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### **V. Fire-Fighting Measures**

**Flammability of the Product:** Not flammable.

**Flash Points (Test Method):** Not applicable.

**Extinguishing Media:** In case of fire, use water fog, dry chemical, CO<sub>2</sub>, or foam. Water may be ineffective.

**Special Firefighting Procedures:** Wear SCBA and protective clothing.

**Unusual Fire and Explosion Hazards:** Contact with some reactive metals may produce flammable hydrogen gas.

#### **VI. Accidental Release Measures**

**Personal Precautions:** Use appropriate personal protective equipment.

**Environmental Precautions:** Do not flush to sewer or allow to enter waterways.

**Methods for Cleaning Up:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

#### **VII. Handling and Storage**

**Handling and Storage:** Keep container closed. Do not contact eyes or skin. Do not take internally.

**Other Precautions:** FOR INDUSTRIAL USE ONLY.

#### **VIII. Exposure Controls/Personal Protection**

**Engineering Controls:** Keep airborne concentrations below personal exposure limits. Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits.

**Personal Protection**

**Eyes:** Safety glasses with side shields or chemical splash goggles.

**Skin:** Other protective clothing depending on degree of exposure. Lab coat recommended to prevent skin contact.

**Respiratory:** Wear NIOSH N95 half face piece particulate respirator if process controls are not adequate.

**Hands:** Chemical resistant, nitrile gloves.

**Personal Protection in Case of a Large Spill:** Use appropriate personal protective equipment.

## IX. Physical and Chemical Properties

<b>Physical State and Appearance:</b>	Liquid
<b>Color:</b>	Amber
<b>Odor:</b>	Slight
<b>pH:</b>	11.9
<b>Boiling Point:</b>	100°C (212°F)
<b>Melting Point:</b>	0°C (32°F)
<b>Vapor Pressure:</b>	2.4 kPa (18mm HG) (at 20°C)
<b>Vapor Density (air = 1):</b>	< 1.00
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.246 (Water = 1) at 25°C (77°F)
<b>Solubility:</b>	Miscible in water

## X. Stability and Reactivity

<b>Stability and Reactivity:</b>	Stable
<b>Conditions of Instability:</b>	None known
<b>Incompatibility with various Substances:</b>	Strong oxidizers, reducing agents
<b>Hazardous Decomposition: Products:</b>	Oxides of carbon, oxides of nitrogen, oxides of sulfur
<b>Hazardous Polymerization:</b>	Will not occur

## XI. Toxicological Information

### Toxicity Data

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Sodium Nitrite	LD50	180 mg/kg	Oral	Rat

### Potential Chronic Effects:

<b>Carcinogenic Effects:</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
<b>Mutagenic Effects:</b>	Not available.
<b>Teratogenic Effects:</b>	Not available.

## XII. Ecological Information

### Aquatic Ecotoxicity

<u>Ingredient Name</u>	<u>Species</u>	<u>Exposure</u>	<u>Result</u>
Sodium Nitrite	Crustaceans	48 hours	Acute EC50 20670 to 26610 ug/L
	Crustaceans	48 hours	Acute LC50 7500 ug/L
	Crustaceans	48 hours	Acute LC50 1100 ug/L
	Fish	96 hours	Acute LC50 83 ug/L
	Fish	96 hours	Acute LC50 48 ug/L
	Fish	96 hours	Chronic NOEC 0.54 mg/L

### Other Adverse Effects:

**Products of Degradation:** No known significant effects or critical hazards. These products are carbon oxides and water, nitrogen oxides, sulfur oxides. Some metallic oxides.

### Toxicity of the Products of Degradation:

The products of biodegradation are more toxic than the original product.

## XIII. Disposal Considerations

### Waste Disposal Method:

Comply with all federal, state and local regulations. Consult state and local authorities for restrictions on disposal of chemical waste. If approved, may be diluted and drained to a municipal sewer or waste treatment plant. Rinse empty container thoroughly with water before discarding.

**XIV. Transport Information**

<u>Regulatory Information</u>	<u>UN Number</u>	<u>Proper Shipping Name</u>	<u>Class</u>	<u>Packing Group</u>	<u>Additional Information</u>
United States (DOT)	---	Non-Regulated	---	---	---
IATA	---	Non-Regulated	---	---	---
IMDG	---	Non-Regulated	---	---	---

**Section XIV Notes:** This product has a Reportable Quantity (RQ) for Sodium Nitrite for containers greater than 2500 pounds.

**XV. Regulatory Information**

**U.S. Federal Regulations:**

**TSCA 5(a)2 final significant rules:** Sodium nitrite  
**TSCA 8(b) inventory:** All components listed.  
**Clean Water Act (CWA) 307:** No products were found.  
**Clean Water Act (CWA) 311:** Sodium nitrite  
**Clean Air Act (CAA) 112 accidental release prevention:** None.  
**Clean Air Act (CAA) 112 regulated flammable substances:** None.  
**Clean Air Act (CAA) 112 regulated toxic substances:** None.  
**SARA 302/304/311/312 extremely hazardous substances:** None.  
**SARA 302/304 emergency planning and notification:** None.  
**SARA 302/304/311/312 hazardous chemicals:** Sodium nitrite  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** Sodium nitrite: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Disodium metasilicate: Immediate (acute) health hazard, Delayed (chronic) health hazard;

**SARA 313**

**Form R - Reporting Requirements**

	<u>Product Name</u>	<u>CAS #</u>	<u>Concentration</u>
<b>Supplier Notification</b>	Sodium Nitrite	7632-00-0	1 - 5
	Sodium Nitrite	7632-00-0	1 - 5

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

**State Regulations:** Available on request.  
**International Regulations:** Available on request.

**XVI. Other Information**

**Label Requirements:** Causes eye irritation; may cause irritation to skin and respiratory tract.

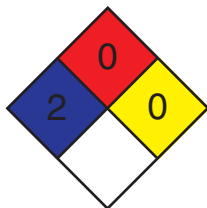
**Hazardous Material Information System (U.S.A.):**

Health	2
Fire Hazard	0
Reactivity	0
Personal Protection	B

**Hazard Ratings**

4 = Extreme; 3 = Serious; 2 = Moderate; 1 = Slight; 0 = Minimal  
 See Section VIII for more detailed information on personal protection.

National Fire Protection  
Association (U.S.A.):



**References:** Available on request.

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**BALDWIN FILTERS®** **BALDWIN**  
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