

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Product name : BW5200, BW5201

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Supplemental Coolant Additive

#### 1.3. Details of the supplier of the safety data sheet

Baldwin Filters  
 4400 E Highway 30  
 Kearney, NE 68847 - US  
 T 800-822-5394  
[baldwin.info@parker.com](mailto:baldwin.info@parker.com) - [www.baldwinfilter.com](http://www.baldwinfilter.com)

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Acute Tox. 3 (Oral) H301  
 Skin Sens. 1 H317  
 Repr. 1B H360  
 Aquatic Acute 1 H400  
 Aquatic Chronic 2 H411

Full text of H statements: see Section 16

#### 2.2. Label elements

##### GHS-US labeling



Hazard pictograms (GHS-US) :

GHS06

GHS07

GHS08

GHS09

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H301 - Toxic if swallowed  
 H317 - May cause an allergic skin reaction  
 H360 - May damage fertility or the unborn child  
 H400 - Very toxic to aquatic life  
 H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use  
 P202 - Do not handle until all safety precautions have been read and understood  
 P261 - Avoid breathing dust  
 P264 - Wash hands, forearms and face thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product  
 P272 - Contaminated work clothing must not be allowed out of the workplace  
 P273 - Avoid release to the environment  
 P280 - Wear protective gloves, protective clothing, eye protection, face protection  
 P301+P310 - If swallowed: Immediately call a poison center/doctor  
 P302+P352 - If on skin: Wash with plenty of soap and water  
 P308+P313 - If exposed or concerned: Get medical advice/attention  
 P330 - Rinse mouth  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
 P363 - Wash contaminated clothing before reuse  
 P391 - Collect spillage  
 P405 - Store locked up  
 P501 - Dispose in a safe manner in accordance with local/national regulations

# G32

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

22.45% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

76.83% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

41.82% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Sodium Nitrite	CAS No. 7632-00-0	30 - 60	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2A, H019 Aquatic Acute 1, H400
Mercaptobenzothiazole	CAS No. 149-30-4	10 - 30	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Disodium Trioxosilicate	CAS No. 6834-92-0	10 - 30	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 STOT SE 3, H335
Sodium metaborate, anhydrous	CAS No. 7775-19-1	5 - 10	Eye Irrit. 2A, H319 Repr. 2, H361
Sodium Nitrate	CAS No. 7631-99-4	5 - 10	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Disodium Tetraborate, Anhydrous	CAS No. 1330-43-4	1 - 5	Eye Irrit. 2A, H319 Repr. 1B, H360

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash skin with soap and water. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: May damage fertility or the unborn child.
Symptoms/injuries after inhalation	: May cause an allergic skin reaction.
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

# G32

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well-ventilated place. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### BW5200, BW5201

ACGIH : Not applicable

OSHA : Not applicable

##### Sodium Nitrite (7632-00-0)

ACGIH : Not applicable

OSHA : Not applicable

##### Mercaptobenzothiazole (149-30-4)

ACGIH : Not applicable

OSHA : Not applicable

##### Disodium Trioxosilicate (6834-92-0)

ACGIH : Not applicable

OSHA : Not applicable

##### Sodium metaborate, anhydrous (7775-19-1)

ACGIH : Not applicable

OSHA : Not applicable

# G32

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sodium Nitrate (7631-99-4)	
ACGIH	Not applicable
OSHA	Not applicable

Disodium Tetraborate, Anhydrous (1330-43-4)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (inhalable particulate matter)
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (inhalable particulate matter)
OSHA	Not applicable	

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Color	: Yellow
Odor	: Odorless
Odor threshold	: No data available
pH	: 10.5 at 1% bw
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: ≤ 100 mm Hg
Relative vapor density at 20 °C	: ≤ 100
Relative density	: No data available
Specific gravity / density	: 0.881015487 g/ml
Solubility	: Water: 100 % tablet; coating insoluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not Applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

### 9.2. Other information

No additional information available

# G32

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed.

<b>BW5200, BW5201</b>	
ATE US (oral)	160.242 mg/kg body weight

<b>Sodium Nitrite (7632-00-0)</b>	
LD50 oral rat	85 mg/kg
LC50 inhalation rat (mg/l)	5.5 mg/l/4h
ATE US (oral)	85.000 mg/kg body weight
ATE US (vapors)	5.500 mg/l/4h
ATE US (dust, mist)	5.500 mg/l/4h

<b>Mercaptobenzothiazole (149-30-4)</b>	
LD50 dermal rabbit	> 7940 mg/kg
LC50 inhalation rat (mg/l)	>0.7 mg/l (Exposure time: 7h)

<b>Disodium Trioxosilicate (6834-92-0)</b>	
LD50 oral rat	1153 mg/kg
ATE US (oral)	1153.000 mg/kg body weight

<b>Sodium Metaborate, Anhydrous (7775-19-1)</b>	
LD50 oral rat	2330 mg/kg
ATE US (oral)	2330.000 mg/kg body weight

<b>Sodium Nitrate (4631-99-4)</b>	
LD50 oral rat	1267 mg/kg
ATE US (oral)	1267.000 mg/kg body weight

<b>Disodium Tetraborate, Anhydrous (1330-43-4)</b>	
LD50 oral rat	2660 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2 mg/m <sup>3</sup> (Exposure time: 4h)
ATE US (oral)	2660.000 mg/kg body weight

Skin corrosion/irritation : Not classified  
pH: 10.5 at 1% bw

Serious eye damage/irritation : Not classified  
pH: 10.5 at 1% bw

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

# G32

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Mercaptobenzothiazole (149-30-4)</b>	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity

Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	: Not classified
Specific target organ toxicity - repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Toxic if swallowed.
Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water	: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
-----------------	--

<b>Sodium Nitrite (7632-00-0)</b>	
LC50 fish 1	0.19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
LC50 fish 2	0.092 - 0.13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

<b>Mercaptobenzothiazole (149-30-4)</b>	
LC50 fish 1	0.73 mg/l
EC50 Daphnia 1	4.1 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	0.42 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
ErC50 (algae)	0.5 mg/l

<b>Disodium Trioxosilicate (6834-92-0)</b>	
LC50 fish 1	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 fish 2	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)

<b>Sodium Nitrate (7631-99-4)</b>	
LC50 fish 1	2000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish 2	994.4 - 1107 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

<b>Disodium Tetraborate, Anhydrous (1330-43-4)</b>	
LC50 fish 1	340 mg/l (Exposure time: 96 h - Species: Limanda limanda)
EC50 Daphnia 1	1085 - 1402 mg/l (Exposure time: 48 h - Species: Daphnia magna)

#### 12.2. Persistence and degradability

<b>BW5200, BW5201</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.

#### 12.3. Bioaccumulative potential

<b>BW5200, BW5201</b>	
Bioaccumulative potential	Not established.

<b>Sodium Nitrite (7632-00-0)</b>	
Log Pow	-3.7 (at 25 °C)

<b>Mercaptobenzothiazole (149-30-4)</b>	
BCF fish 1	< 0.8
Log Pow	2.3 - 2.5

<b>Sodium Nitrate (7631-99-4)</b>	
Log Pow	-3.8 (at 25 °C)

<b>Disodium Tetraborate, Anhydrous (1330-43-4)</b>	
BCF fish 1	(no evidence of bioaccumulation)

# G32

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on global warming : No known effects from this product.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

## SECTION 14: Transport information

UN-No. (DOT) : UN3288  
UN-No. (IMDG) : 3288  
UN-No. (IATA) : 3288

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Toxic solid, inorganic, n.o.s.  
(Sodium Nitrite)  
RQ of 240 lb  
  
Proper Shipping Name (IMDG) : Toxic Solid, inorganic, n.o.s.  
(Sodium Nitrite)  
  
Proper Shipping Name (IATA) : Toxic Solid, inorganic, n.o.s.  
(Sodium Nitrite)

### 14.3. Transport hazard class(es)

Class (DOT) : 6.1 - Poison

Hazard labels (DOT) : 6.1



Transport hazard class(es) (IMDG) : 6.1

Hazard labels (IMDG) : 6.1



Transport hazard class(es) (IATA) : 6.1

Hazard labels (IATA) : 6.1



# G32

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 14.4. Packing group

Packing group (DOT)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III

### 14.5. Environmental hazards

Marine pollutant (DOT)	: No
Marine pollutant (IMDG)	: Yes
Marine pollutant (IATA)	: Yes

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Sodium Nitrite	CAS No 7632-00-0	30 - 60%
Mercaptobenzothiazole	CAS No 149-30-4	10 - 30%
Ethylene oxide	CAS No 75-21-8	< 1%

#### Sodium Nitrite (7632-00-0)

Subject to reporting requirements of United States SARA Section 313

EPA TSCA Regulatory Flag	S – S – Indicates a substance that is identified in a proposed or final Significant New Uses Rule.
CERCLA RQ	100 lb
SARA Section 313 - Emission Reporting	1.0 %

#### Mercaptobenzothiazole (149-30-4)

Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting	1.0 %
---------------------------------------	-------

#### Methyl-oxirane polymer with oxirane (9003-11-6)

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 11)
--------------------------	---

#### Polyethylene Glycol (25322-68-3)

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 11)
--------------------------	---

#### Ethylene oxide (75-21-8)

Listed on the United States SARA Section 302

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	10 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
SARA Section 313 - Emission Reporting	0.1 %



# G32

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 15.2. International regulations

#### CANADA

##### Sodium Nitrite (7632-00-0)

Listed on the Canadian DSL (Domestic Substances List)

##### Mercaptobenzothiazole (149-30-4)

Listed on the Canadian DSL (Domestic Substances List)

##### Disodium Trioxosilicate (6834-92-0)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class E - Corrosive Material

##### Sodium Metaborate, Anhydrous (7775-19-1)

Listed on the Canadian DSL (Domestic Substances List)

##### Sodium Nitrate (7631-99-4)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class C - Oxidizing Material  
Class D Division 2 Subdivision B - Toxic material causing other toxic effects

##### Disodium Tetraborate, Anhydrous (1330-43-4)

Listed on the Canadian DSL (Domestic Substances List)

### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

#### Mercaptobenzothiazole (149-30-4)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	

#### Ethylene oxide (75-21-8)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	Yes	Yes	Yes	2 µg/day

## SECTION 16: Other information

Revision date : 12/13/18

Other information : None.

Full text of H-phrases:

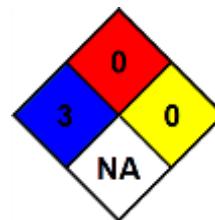
H272	May intensify fire; oxidizer
H290	May be corrosive to metal
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

# G32

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 3 – Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone and sand.
NFPA reactivity	: 0 – Materials that in themselves are normally stable, even under fire conditions.
NFPA specific hazard	: NA - Not Applicable



Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal protection	: I

### Baldwin Filters SDS

*To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*