

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
info@baldwinfilter.com - 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
Carc. 1B H350
Repr. 1A 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
H350 - May cause cancer
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/fume/gas/mist/vapors/spray
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
P321 - Specific treatment (see First aid measures on this label) P330 - Rinse mouth
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse

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P391 - Collect spillage
P405 - Store locked up
P501 - Dispose in a safe manner in accordance with local/national regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable.

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 Aquatic Acute 1, H400
Mercaptobenzothiazole	(CAS No) 149-30-4	10 - 30	Skin Sens. 1, H317 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Disodium Trioxosilicate	(CAS No) 6834-92-0	10 - 30	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 Repr. 1B, H360 Repr. 1A, H360
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	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 you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

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. Specific treatment (see First aid measures on this label).

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

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.

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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.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.

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 : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TR80033

ACGIH	Not applicable
OSHA	Not applicable

OSHA	Not applicable
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Disodium Trioxosilicate (6834-92-0)

ACGIH	Not applicable
OSHA	Not applicable

OSHA	Not applicable
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Mercaptobenzothiazole (149-30-4)

ACGIH	Not applicable
OSHA	Not applicable

OSHA	Not applicable
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Disodium Tetraborate, Anhydrous (1330-43-4)

ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (inhalable particulate matter)
ACGIH	ACGIH STEL (mg/m ³)	6 mg/m ³ (inhalable particulate matter)
OSHA	Not applicable	

OSHA	Not applicable	
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Sodium Nitrite (7632-00-0)

ACGIH	Not applicable
OSHA	Not applicable

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

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

OSHA : Not applicable

Sodium metaborate, anhydrous (7775-19-1)

ACGIH : Not applicable

OSHA : Not applicable

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.
Hand protection : Wear protective gloves/protective clothing/eye protection/face protection protective gloves.
Eye protection : Chemical goggles or safety glasses.
Respiratory protection : Wear appropriate mask.
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 : Not Applicable
Boiling point : No data available
Flash point : ≥ 93 °C
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 : Not Available
Specific gravity / density : 0.881015487 g/ml
Solubility : Water: 100 %
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

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.

TR80033

ATE US (oral) 202.740 mg/kg body weight

Disodium Trioxosilicate (6834-92-0)

LD50 oral rat 1153 mg/kg

ATE US (oral) 1153.000 mg/kg body weight

Mercaptobenzothiazole (149-30-4)

LD50 dermal rabbit > 7940 mg/kg

Disodium Tetraborate, Anhydrous (1330-43-4)

LD50 oral rat 2660 mg/kg

LD50 dermal rabbit > 2000 mg/kg

ATE US (oral) 2660.000 mg/kg body weight

Sodium Nitrite (7632-00-0)

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

Sodium Nitrate (7631-99-4)

LD50 oral rat 1267 mg/kg

ATE US (oral) 1267.000 mg/kg body weight

Sodium metaborate, anhydrous (7775-19-1)

LD50 oral rat 2330 mg/kg

ATE US (oral) 2330.000 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. Not classified.

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

Mercaptobenzothiazole (149-30-4)

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. Not classified.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met. Toxic if swallowed.

Symptoms/injuries after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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SECTION 12: Ecological information

12.1. Toxicity

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

Disodium Trioxosilicate (6834-92-0)	
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)
Mercaptobenzothiazole (149-30-4)	
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
Disodium Tetraborate, Anhydrous (1330-43-4)	
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)
Sodium Nitrite (7632-00-0)	
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])
Sodium Nitrate (7631-99-4)	
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])

12.2. Persistence and degradability

TR80033

Persistence and degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

TR80033

Bioaccumulative potential : Not established.

Mercaptobenzothiazole (149-30-4)

BCF fish 1 : < 0.8
Log Pow : 2.3 - 2.5

Disodium Tetraborate, Anhydrous (1330-43-4)

BCF fish 1 : (no evidence of bioaccumulation)

Sodium Nitrite (7632-00-0)

Log Pow : -3.7 (at 25 °C)

Sodium Nitrate (7631-99-4)

Log Pow : -3.8 (at 25 °C)

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

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. 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

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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
:



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

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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.

Vinyl Acetate	CAS No 108-05-4	< 1%
Mercaptobenzothiazole	CAS No 149-30-4	10 - 30%
Sodium Nitrite	CAS No 7632-00-0	30 - 60%
Ethylene oxide	CAS No 75-21-8	< 1%
Formaldehyde	CAS No 50-00-0	< 1%

Vinyl Acetate (108-05-4)

Listed on the United States SARA Section 302

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
SARA Section 313 - Emission Reporting	0.1 %

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

EPA TSCA Regulatory Flag XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))

Mercaptobenzothiazole (149-30-4)

Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting	1.0 %
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Sodium Nitrite (7632-00-0)

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	100 lb
SARA Section 313 - Emission Reporting	1.0 %

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 %

Formaldehyde (50-00-0)

Listed on the United States SARA Section 302

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb
SARA Section 313 - Emission Reporting	0.1 %

15.2. International regulations - CANADA

Disodium Trioxosilicate (6834-92-0)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class E - Corrosive Material

Mercaptobenzothiazole (149-30-4)

Listed on the Canadian DSL (Domestic Substances List)

Disodium tetraborate, anhydrous (1330-43-4)

Listed on the Canadian DSL (Domestic Substances List)

Sodium Nitrite (7632-00-0)

Listed on the Canadian DSL (Domestic Substances List)

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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

Sodium metaborate, anhydrous (7775-19-1)

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

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

Formaldehyde (50-00-0)

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	40 µg/day

SECTION 16: Other information

Revision date : 11/30/2016
Other information : None.

Full text of H-phrases:

H272	May intensify fire; oxidizer
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
H350	May cause cancer
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

NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard : 0 - Materials that will not burn.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard : NA - Not Applicable



HMIS III 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

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Hastings Premium 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.