

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

### 1.1. Product identifier

Product form : Mixture  
Product name : BW5250\*\*

### 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

Hastings Premium Filters  
4400 E Highway 30  
Kearney, NE 68847 - US  
T 800-887-8836  
[info@hastingsfilter.com](mailto:info@hastingsfilter.com) - [www.hastingsfilter.com](http://www.hastingsfilter.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. 4 (Oral) H302  
Aquatic Acute 2 H401  
Full text of H-phrases: see section 16

### 2.2. Label elements

#### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H302 - Harmful if swallowed  
H401 - Toxic to aquatic life  
Precautionary statements (GHS-US) : P264 - Wash hands, forearms and face thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment  
P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell  
P330 - Rinse mouth  
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. Substance

Not applicable

### 3.2. Mixture

# G42

## Safety Data Sheet

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

Name	Product identifier	%	GHS-US classification
Tetrapotassium Pyrophosphate Anhydrous	(CAS No) 7320-34-5	10 - 30	Eye Irrit. 2A, H319
Sodium Nitrite	(CAS No) 7632-00-0	10 - 30	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400
Sodium Nitrate	(CAS No) 7631-99-4	5 - 10	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Disodium Trioxosilicate	(CAS No) 6834-92-0	5 - 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 STOT SE 3, H335
Tolyltriazole	(CAS No) 29385-43-1	5 - 10	Acute Tox. 4 (Oral), H302
Disodium Tetraborate, Anhydrous	(CAS No) 1330-43-4	1 - 5	Repr. 1B, H360 Aquatic Acute 3, H402
Maleic Anhydride	(CAS No) 108-31-6	< 1	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Acute 3, H402

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 : Assure fresh air breathing. 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 persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor/physician if you feel unwell.

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

- Symptoms/injuries after ingestion : 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.

### SECTION 6: Accidental release measures

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

- General measures : Isolate from fire, if possible, without unnecessary risk.

##### 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.

# G42

## Safety Data Sheet

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

### 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 : Avoid dust formation. 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

Technical measures : Comply with applicable regulations. Provide local exhaust or general room ventilation.

Storage conditions : Protect from moisture. 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

TR80034 Coated		
ACGIH	Not applicable	
OSHA	Not applicable	

Maleic Anhydride (108-31-6)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.01 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	0.25 ppm

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

Tetrapotassium Pyrophosphate Anhydrous (7320-34-5)		
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>
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
OSHA	Not applicable	

Tolyltriazole (29385-43-1)		
ACGIH	Not applicable	
OSHA	Not applicable	

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

# G42

## 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

### 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	: Blue
Odor	: odorless
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=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	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: 100 % tablet; coating insoluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive 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

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Moisture. Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

# G42

## Safety Data Sheet

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

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

<b>TR80034 Coated</b>	
ATE US (oral)	607.284 mg/kg bodyweight

<b>Maleic Anhydride (108-31-6)</b>	
LD50 oral rat	235 mg/kg
LD50 dermal rabbit	2620 mg/kg
ATE US (oral)	235.000 mg/kg bodyweight
ATE US (dermal)	2620.000 mg/kg bodyweight
ATE US (vapors)	0.160 mg/l/4h

<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 bodyweight
ATE US (vapors)	5.500 mg/l/4h
ATE US (dust, mist)	5.500 mg/l/4h

<b>Disodium Tetraborate, Anhydrous (1330-43-4)</b>	
LD50 oral rat	2660 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE US (oral)	2660.000 mg/kg bodyweight

<b>Tolytriazole (29385-43-1)</b>	
LD50 oral rat	675 mg/kg
ATE US (oral)	675.000 mg/kg bodyweight

<b>Disodium Trioxosilicate (6834-92-0)</b>	
LD50 oral rat	600 mg/kg
ATE US (oral)	600.000 mg/kg bodyweight

<b>Sodium Nitrate (7631-99-4)</b>	
LD50 oral rat	1267 mg/kg
ATE US (oral)	1267.000 mg/kg bodyweight

Skin corrosion/irritation : Not classified.  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : Not classified. Not classified.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Reproductive toxicity : Not classified.  
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 : Based on available data, the classification criteria are not met. Harmful if swallowed.

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

# G42

## Safety Data Sheet

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

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life. Toxic to aquatic life.

<b>Maleic Anhydride (108-31-6)</b>	
EC50 other aquatic organisms 1	29 mg/l (Exposure time: 72 h - Species: <i>Desmodemus subspicatus</i> )
ErC50 (algae)	29 mg/l

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

<b>Tetrapotassium Pyrophosphate Anhydrous (7320-34-5)</b>	
LC50 fishes 1	> 100 mg/l (Exposure time: 96 h - Species: <i>Oncorhynchus mykiss</i> )
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: water flea)

<b>Disodium Tetraborate, Anhydrous (1330-43-4)</b>	
LC50 fishes 1	340 mg/l (Exposure time: 96 h - Species: <i>Limanda limanda</i> )
EC50 Daphnia 1	1085 - 1402 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i> )
EC50 other aquatic organisms 1	158 mg/l (Exposure time: 96 h - Species: <i>Desmodemus subspicatus</i> )
EC50 other aquatic organisms 2	2.6 - 21.8 mg/l (Exposure time: 96 h - Species: <i>Pseudokirchneriella subcapitata</i> [static])

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

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

#### 12.2. Persistence and degradability

<b>TR80034 Coated</b>	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

<b>TR80034 Coated</b>	
Bioaccumulative potential	Not established.

<b>Maleic Anhydride (108-31-6)</b>	
BCF fish 1	(hydrolysis)

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

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

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

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

# G42

## Safety Data Sheet

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

### 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.

### SECTION 14: Transport information

UN-No.(DOT) : UN3077

UN-No. (IMDG) : 3077

UN-No.(IATA) : 3077

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Environmentally hazardous substances, solid, n.o.s.  
(Sodium Nitrite)  
RQ of 883 lb

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Sodium Nitrite)

Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Sodium Nitrite)

#### 14.3. Transport hazard class(es)

Department of Transportation (DOT) Hazard Classes : 9 - Class 9 (Miscellaneous dangerous materials)

Hazard labels (DOT) : 9  
:



Transport hazard class(es) (IMDG) : 9

Danger labels (IMDG) : 9  
:



Transport hazard class(es) (IATA) : 9

Hazard labels (IATA) : 9  
:



#### 14.4. Packing group

Packing group (DOT) : III

Packing group (IMDG) : III

# G42

## Safety Data Sheet

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

Packing group (IATA) : III

### 14.5. Environmental hazards

Marine pollutant(DOT) : No  
Marine pollutant(IMDG) : Yes  
Marine pollutant(IATA) : Yes  
Marine Pollutant Component(s) : Sodium Nitrite

## 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	10 - 30
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#### Vinyl Acetate (108-05-4)

Listed on the United States SARA Section 302  
Listed on United States SARA Section 313

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

#### Maleic Anhydride (108-31-6)

Listed on United States SARA Section 313

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

Listed on 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.
SARA Section 313 - Emission Reporting	1.0 %

#### 1,2-dichloroethane (107-06-2)

Listed on United States SARA Section 313

EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	0.1 %

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

Listed on the United States SARA Section 302  
Listed on United States SARA Section 313

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

### 15.2. International regulations

#### CANADA

#### Maleic Anhydride (108-31-6)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material
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#### Sodium Nitrite (7632-00-0)

Listed on the Canadian DSL (Domestic Substances List)



# G42

## Safety Data Sheet

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

<b>Tetrapotassium Pyrophosphate Anhydrous (7320-34-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>Disodium tetraborate, anhydrous (1330-43-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Tolytriazole (29385-43-1)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Disodium Trioxosilicate (6834-92-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class E - Corrosive Material
<b>Sodium Nitrate (7631-99-4)</b>	
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

### 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 and/or reproductive toxicity

<b>1,2-dichloroethane (107-06-2)</b>				
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	No significance risk level (NSRL)
Yes	No	No	No	10 µg/day
<b>Ethylene oxide (75-21-8)</b>				
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	No significance risk level (NSRL)
Yes	Yes	Yes	Yes	2 µg/day

### SECTION 16: Other information

Other information : None.

Full text of H-phrases::

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Acute 2	Hazardous to the aquatic environment — Acute Hazard, Category 2
Aquatic Acute 3	Hazardous to the aquatic environment — Acute Hazard, Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Ox. Sol. 3	Oxidizing Solids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Sensitization — Respiratory, category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitization — Skin, category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled

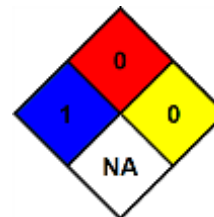
# G42

## Safety Data Sheet

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

H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is 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 : 1 - Irritation or minor reversible injury possible  
Flammability : 0  
Physical : 0  
Personal Protection : C

### 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.*