

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

**1.1. Product identifier**

Product form : Mixture  
Product name : WC22

**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  
[hastings.info@parker.com](mailto:hastings.info@parker.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. 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/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  
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

**2.3. Other hazards**

No additional information available

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

1.31% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
67.54% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

**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 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
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	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. 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/fume/gas/mist/vapors/spray. 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.

#### 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

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

Mercaptobenzothiazole (149-30-4)	
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	

Sodium Nitrite (7632-00-0)	
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

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	: $\geq 93^{\circ}\text{C}$
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: $\leq 100$ mm Hg
Relative vapor density at 20 °C	: $\leq 100$
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.

# G32

## Safety Data Sheet

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

### 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
LC50 inhalation rat (mg/l)	>0.7 mg/l (Exposure time: 7h)

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

Disodium Tetraborate, Anhydrous (1330-43-4)	
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 : Not classified

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 inhalation : May cause an allergic skin reaction.

# G32

## 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 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.

# G32

## Safety Data Sheet

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

### 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



#### 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.

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

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 %

**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
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**Mercaptobenzothiazole (149-30-4)**

Listed on the Canadian DSL (Domestic Substances List)



# G32

## Safety Data Sheet

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

<b>Disodium tetraborate, anhydrous (1330-43-4)</b>
Listed on the Canadian DSL (Domestic Substances List)

<b>Sodium Nitrite (7632-00-0)</b>
Listed on the Canadian DSL (Domestic Substances List)

<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

<b>Sodium metaborate, anhydrous (7775-19-1)</b>
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

<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	Non-significant risk level (NSRL)
Yes	Yes	Yes	Yes	2 µg/day

<b>Formaldehyde (50-00-0)</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	Non-significant risk level (NSRL)
Yes	No	No	No	40 µg/day

## SECTION 16: Other information

Revision date : 06/06/2017  
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
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 – 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



# G32

## Safety Data Sheet

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

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### 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

### Hastings Premium Filters SDS

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