

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 05/06/2015 Revision date: 12/05/2017

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

1.1. Product identifier

Product form : Mixture
Product name : BTE Solid

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

Use of the substance/mixture : Corrosion and Scale Inhibitor

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 - 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 Corr. 1C H314
Carc. 1B H350
Repr. 1B H360
STOT SE 3 H335
Aquatic Acute 1 H400

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H301 - Toxic if swallowed
H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation
H350 - May cause cancer
H360 - May damage fertility or the unborn child
H400 - Very toxic to aquatic life

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust
P261 - Avoid breathing dust
P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear eye protection, protective clothing, protective gloves
P301+P310 - If swallowed: Immediately call a poison center
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

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P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P310 - Immediately call a poison center
P312 - Call a poison center if you feel unwell
P330 - Rinse mouth
P363 - Wash contaminated clothing before reuse
P391 - Collect spillage
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
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)

1.67% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

81.89% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

32.51% 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, H319 Aquatic Acute 1, H400
Disodium Trioxosilicate	(CAS No) 6834-92-0	21 - 31	Met. Corr 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 STOT SE 3, H335
Tolyltriazole	(CAS No) 29385-43-1	8 - 13	Acute Tox. 4 (Oral), H302
Disodium Tetraborate, Anhydrous	(CAS No) 1330-43-4	4 - 7	Eye Irrit. 2A, H319 Repr. 1B, H360
	(CAS No) 77-09-8	< 1	Muta. 2, H341 Carc. 1B, H350

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.
First-aid measures after inhalation : Remove victim to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician, if you feel unwell.
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Rinse mouth. Call a physician immediately. Do not induce vomiting.

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

Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : Burns.
Symptoms/injuries after eye contact : Serious damage to eyes.
Symptoms/injuries after ingestion : Burns.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection."

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.
Hygiene measures : Separate working cloths from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TR84746	
ACGIH	Not applicable
OSHA	Not applicable
Sodium Nitrite (7632-00-0)	
ACGIH	Not applicable
OSHA	Not applicable

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

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

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	

Phenolphthalein (77-09-8)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure control

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Wear protective gloves/protective clothing/eye protection/face protection
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.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Color	: White to yellowish
Odor	: Slight
Odor threshold	: No data available
pH	: 10.5 at 1% solution
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	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: ≤ 0.013 kPa
Relative vapor density at 20 °C	: ≤ 1
Relative density	: Not applicable
Specific gravity / density	: 0.881 g/ml
Solubility	: Water
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: Not applicable

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Viscosity, dynamic	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed.

TR84746	
ATE US (oral)	147.828 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 Trioxosilicate (6834-92-0)	
LD50 oral rat	1153 mg/kg
ATE US (oral)	1153.000 mg/kg body weight

Tolyltriazole (29385-43-1)	
LD50 oral rat	675 /kg
LD50 dermal rabbit	> 4000 mg/kg
LC50 Inhalation rat (mg/l)	> 1.73 mg/l (Exposure time: 1 h)
ATE US (oral)	675.000 mg/kg body weight

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

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 10.5 at 1% solution
Serious eye damage/irritation	: Not classified pH: 10.5 at 1% solution

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Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.

Phenolphthalein (77-09-8)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen

Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity-single exposure	: May cause respiratory irritation.
Specific target organ toxicity -repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Serious damage to eyes.
Symptoms/injuries after ingestion	: Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life.
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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])

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)

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)

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

Sodium Nitrite (7632-00-0)	
Log Pow	-3.7 (at 25 °C)

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

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on global warming	: No known effects from this product.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collectors sorting instructions.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

UN-No.(DOT)	: UN2923
UN-No. (IMDG)	: 2923
UN-No. (IATA)	: 2923

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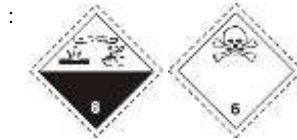
14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Corrosive solids, toxic, n.o.s. (Disodium Trioxosilicate, Sodium Nitrite) RQ of 180 lb
Proper Shipping Name (IMDG)	: CORROSIVE SOLID, TOXIC, N.O.S. (Disodium Trioxosilicate, Sodium Nitrite)
Proper Shipping Name (IATA)	: Corrosive solid, toxic, n.o.s. (Disodium Trioxosilicate, Sodium Nitrite)

14.3. Transport hazard class(es)

Class (DOT) : 8 - Corrosive, 6.1 - Poison

Hazard labels (DOT) : 8, 6.1



Transport hazard class(es) (IMDG) : 8 (6.1)

Hazard labels (IMDG) : 8, 6.1



Transport hazard class(es) (IATA) : 8 (6.1)

Hazard labels (IATA) : 8, 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

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.

Phenolphthalein	CAS No 77-09-8	< 1%
Sodium Nitrite	CAS No 7632-00-0	30 - 60%
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 %

Tolyltriazole (29385-43-1)

EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed Section 4 test rule under TSCA.
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Sodium Polyacrylate (9003-04-7)

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))
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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))
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Phenolphthalein (77-09-8)

Subject to reporting requirements of United States SARA Section 313

SARA Section 313 - Emission Reporting	0.1 %
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Polyethylene Glycol (25322-68-3)

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))
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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 %

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15.2. International regulations

CANADA

Sodium Nitrite (7632-00-0)

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

Tolyltriazole (29385-43-1)

Listed on the Canadian DSL (Domestic Substances List)

Disodium tetraborate, anhydrous (1330-43-4)

Listed on the Canadian DSL (Domestic Substances List)

Phenolphthalein (77-09-8)

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

Phenolphthalein (77-09-8)

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	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 : 12/05/2017

Abbreviations and acronyms : Acute Toxicity Estimate. Median effective concentration. International Air Transport Association. International Maritime Dangerous Goods. Median lethal concentration. Median lethal dose.

Full text of H-phrases:

H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H400	Very toxic to aquatic life

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NFPA health hazard	: 3 – Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard conditions,	: 0 - Materials that will not burn under typical dire including intrinsically noncombustible materials such as concrete, stone and sand.
NFPA reactivity	: 1 – Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
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	: 1 Slight Hazard
Personal protection	: J



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.