Safety Data Sheet



SECTION 1: Product and	l company identification
Product name	: Trident BoilerPro S Plus
Use of the substance/mixture	: Water treatment
Product code	: 196001
Company	: Share Corporation P.O. Box 245013 Milwaukee, WI 53224 - USA T (414) 355-4000
Emergency number	: Chemtrec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Met. Corr. 1 H290 Skin Corr. 1A H314 Full text of H-phrases: see section 16

2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: May be corrosive to metals Causes severe skin burns and eye damage
Precautionary statements (GHS-US)	 Keep only in original container Do not breathe mist, spray Wash thoroughly after handling Wear eye protection, protective clothing, protective gloves If swallowed: rinse mouth. Do NOT induce vomiting If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower If inhaled: Remove person to fresh air and keep comfortable for breathing If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a doctor, a POISON CENTER Wash contaminated clothing before reuse Absorb spillage to prevent material damage Store locked up Store in corrosive resistant container with a resistant inner liner Dispose of contents/container to comply with local/regional/national/international regulations.

2.3.	Other hazards
No add	litional information available
2.4. U	Unknown acute toxicity (GHS US)
Not app	plicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

Name	Product identifier	%	Classification (GHS-US)
potassium hydroxide, 45%= <conc<50%, aqueous="" solutions<="" td=""><td>(CAS No) 1310-58-3</td><td>1-5</td><td>Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314</td></conc<50%,>	(CAS No) 1310-58-3	1-5	Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314

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Name	Product identifier	%	Classification (GHS-US)
2-(diethylamino)ethanol	(CAS No) 100-37-8	1-5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314
sodium metabisulphite	(CAS No) 7681-57-4	1-5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
tetrapotassium pyrophosphate, anhydrous	(CAS No) 7320-34-5	1-5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: May cause respiratory irritation. Possible laryngeal spasm/oedema.
Symptoms/injuries after skin contact	: Caustic burns/corrosion of the skin.
Symptoms/injuries after eye contact	: Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
Symptoms/injuries after ingestion	: May be harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Cramps.
4.3. Indication of any immediate medica Treat symptomatically.	attention and special treatment needed
SECTION 5: Firefighting measure	'S
5.1. Extinguishing media	
Suitable extinguishing media	: All extinguishing media allowed.
5.2. Special hazards arising from the sub	
Reactivity	: Upon combustion: CO and CO2 are formed.

- 5.3. Advice for firefighters

 Firefighting instructions
 : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
- 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 e	quipment and emergency procedures
General measures	: Isolate from fire, if possible, without unnecessary risk.
6.1.1. For non-emergency personne	
Protective equipment	: Protective goggles. Gloves. Protective clothing.
Emergency procedures	: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Stop leak if safe to do so. Stop release. Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment. Prev	ent soil and water pollution.
6.3. Methods and material for contain	ment and cleaning up
For containment	: Contain released substance, pump into suitable containers.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available

SECTION 8: Exposure controls/personal protection

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SECTION 7: Handling and storage



SECTION 7. Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.
Hygiene measures	: Wash thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures	: Comply with applicable regulations. Add ALLWAYS product to water for dilution/mixture. Never add water to this product.
Storage conditions	: Keep container closed when not in use.
Incompatible products	: acids.
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) acids.
Storage area	: Meet the legal requirements. Store in a dry area. Store in a cool area.
Special rules on packaging	: meet the legal requirements. Keep only in original container.

8.1. Control parameters		
2-(diethylamino)ethanol (100-37-8)		
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	ACGIH STEL (ppm)	2 ppm
potassium hydroxide, 45%= <conc<50%, (1310-58-3)<="" aqueous="" solutions="" td=""></conc<50%,>		
ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³

8.2. Exposure controls Personal protective equipment

: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective clothing.



SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and chemic	cal properties
Physical state	: Liquid
Appearance	: clear. brown. Liquid.
Odor	: slight ammonia.
Odor threshold	: No data available
рН	: 13 - 14
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F Closed Cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.12 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
VOC content	: ND

SECTION 10: Stability and reactivity
10.1. Reactivity
Upon combustion: CO and CO2 are formed.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
Refer to section 10.1 on Reactivity.
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
acids.

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	: Not classified		
2-(diethylamino)ethanol (100-37-8)	2-(diethylamino)ethanol (100-37-8)		
LD50 oral rat	1320 mg/kg (Rat)		
LD50 dermal rabbit	1109 mg/kg (Rabbit)		
potassium hydroxide, 45%= <conc<50%, (1310-58-3)<="" aqueous="" solutions="" td=""></conc<50%,>			
LD50 oral rat	273 mg/kg (Rat)		
ATE CLP (oral)	273.000 mg/kg body weight		
sodium metabisulphite (7681-57-4)	sodium metabisulphite (7681-57-4)		
ATE CLP (oral)	500.000 mg/kg body weight		
tetrapotassium pyrophosphate, anhydrous (7320-34-5)			
LD50 dermal rabbit	> 4640 mg/kg (Rabbit)		
Skin corrosion/irritation	: Causes severe skin burns and eye damage.		
	pH: 13 - 14		
Serious eye damage/irritation	: Not classified		
	pH: 13 - 14		
Respiratory or skin sensitization	: 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		
Symptoms/injuries after inhalation	: May cause respiratory irritation. Possible laryngeal spasm/oedema.		

Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin.

- : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
 - : May be harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Cramps.

SEC	CTION 12: Ecological information	
12.1.	Toxicity	

Symptoms/injuries after eye contact

Symptoms/injuries after ingestion

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2-(diethylamino)ethanol (100-37-8)	
LC50 fish 1	100 - 220 mg/l (96 h; Leuciscus idus)
EC50 Daphnia 1	83.6 mg/l (48 h; Daphnia magna)
LC50 fish 2	1780 mg/l (96 h; Pimephales promelas)
Threshold limit algae 1	30 mg/l (72 h; Scenedesmus subspicatus)
ootassium hydroxide, 45%= <conc<50%, aque<="" td=""><td>ous solutions (1310-58-3)</td></conc<50%,>	ous solutions (1310-58-3)
LC50 fish 1	28.6 mg/l (24 h; Pisces; Pure substance)
LC50 other aquatic organisms 1	100 - 1000 mg/l (96 h)
LC50 fish 2	80 mg/l (96 h; Gambusia affinis; Pure substance)
Threshold limit other aquatic organisms 1	100 - 1000,96 h
etrapotassium pyrophosphate, anhydrous (73	20-34-5)
_C50 fish 1	> 750 mg/l (48 h; Leuciscus idus)
2.2. Persistence and degradability	
2-(diethylamino)ethanol (100-37-8)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.002 g O /g substance
Chemical oxygen demand (COD)	0.76 g O /g substance
ootassium hydroxide, 45%= <conc<50%, aque<="" td=""><td>ous solutions (1310-58-3)</td></conc<50%,>	ous solutions (1310-58-3)
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
etrapotassium pyrophosphate, anhydrous (73	20-34-5)
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
2.3. Bioaccumulative potential	
2-(diethylamino)ethanol (100-37-8)	
Log Pow	0.21 - 0.46
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
potassium hydroxide, 45%= <conc<50%, aque<="" td=""><td>ous solutions (1310-58-3)</td></conc<50%,>	ous solutions (1310-58-3)
Bioaccumulative potential	Not bioaccumulative.
etrapotassium pyrophosphate, anhydrous (73	20-34-5)
Bioaccumulative potential	Bioaccumulation: not applicable.
•	
ECTION 13: Disposal considerations	
8.1. Waste treatment methods	

SECTION 14: Transport information	h
Department of Transportation (DOT)	

Transport document description UN-No.(DOT)	: UN3266 Corrosive liquid, basic, inorganic, n.o.s. (Potassium Hydroxide), 8, II : UN3266
Proper Shipping Name (DOT)	: Corrosive liquid, basic, inorganic, n.o.s.
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136

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Hazard labels (DOT)	: 8 - Corrosive
Packing group (DOT)	: II - Medium Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	: B2,IB2,T11,TP2,TP27
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: B
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters",52 - Stow "separated from" acids
Additional information	
Other information	: No supplementary information available.
ADR No additional information available	
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	on and a second s
All components of this product are listed, or a	excluded from listing, on the United States Environmental Protection Agency Toxic Substances

Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

potassium hydroxide, 45%= <conc<50%, (1310-58-3)<="" aqueous="" solutions="" th=""></conc<50%,>	
Not listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb

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

SECTION 16: Other information

Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2

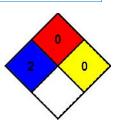
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H226	Flammable liquid and vapor
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled

 NFPA health hazard
 :
 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention 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.



Prepared by: Technical Department

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