

# Safety Data Sheet

BOND 355

## 1 – PRODUCT IDENTIFICATION

**PRODUCT NAME:**..... BOND 355

**MANUFACTURER'S NAME:**..... BOND WATER TECHNOLOGIES, INC.

**MANUFACTURER'S ADDRESS:**..... 630 E. Diamond Avenue, Suite J/K, Gaithersburg, MD 20877

**MANUFACTURER'S PHONE:** ..... (301) 721-BOND

**EMERGENCY PHONE NUMBER:** ..... (800) 424-9300 CHEMTREC

**PRODUCT USE:**..... This product is designed for use in industrial, commercial or institutional water treatment systems. This product is not for use in potable water systems.

## 2 – HAZARDS IDENTIFICATION

**SIGNAL WORD:** DANGER

**POTENTIAL HEALTH EFFECTS:**



H302: Harmful if swallowed

H413: May cause long lasting harmful effects to aquatic life

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H314: Causes severe skin burns and eye damage

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H331: Toxic if inhaled

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## PRECAUTIONARY STATEMENTS:

P260: Do not breathe dust/fume/gas/mist/vapours/spray  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P264: Wash thoroughly after handling.  
P402+404: Store in a dry place. Store in a closed container.  
P403+404: Store in a well ventilated place. Keep cool.  
P321: Specific treatment (see First Aid Measures on Safety Data Sheet).

## 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
tributyl tetradecyl phosphonium chloride	5-10	8174-128-8

## 4 – FIRST-AID MEASURES

**EYES:** ..... Flush eyes with abundant water for 15 minutes. Consult a physician.

**SKIN (DERMAL):** ..... Promptly remove contaminated clothes. Wash skin with soap and water. If irritation persists, consult a physician.

**SWALLOWING (INGESTION):** ..... If ingested DO NOT induce vomiting. Give large amounts of water, seek immediate medical attention.

**BREATHING (INHALATION):** ..... In case of discomfort from dusts or vapors, move to a well ventilated area. Get immediate medical attention if signs of suffocation, irritation or other symptoms develop.

## 5 – FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** ..... Water Spray, Foam, Dry Chemical or CO<sub>2</sub>

**HAZARDOUS DECOMPOSITION PRODUCTS:** ..... Combustion creates toxic gases/vapors/fumes of carbon monoxide, carbon dioxide, oxides of: phosphorus and chlorine.

**SPECIAL FIREFIGHTING PROCEDURES:** ..... Wear full protective suit with self contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION DATA:** ..... None

## 6 – ACCIDENTAL RELEASE MEASURES

**LEAK AND SPILL PROCEDURES:** ..... Use specified protective equipment (see section8). Contain and absorb with inert material. Sweep up spill and reclaim or place in a covered waste disposal container. Product is toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Do not allow release to drain.

**WASTE DISPOSAL:** ..... Dispose of contaminated product via an approved chemical waste disposal firm and in accordance with all federal, state and local regulations.

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## 7 – HANDLING and STORAGE

**HANDLING PROCEDURES AND EQUIPMENT:** .... Handle an open container with care. See section 8 for personal protection equipment. Avoid all skin contact and wash thoroughly after handling.

**STORAGE REQUIREMENTS:** ..... Store in a tightly sealed container in a cool, dry and well-ventilated area. Store away from incompatible materials. Do not reuse empty containers. Do not store in containers made of carbon steel. Store away from alkalis and reducing agents. Keep separate from food, foodstuffs, fertilizers and other sensitive material.

**SPECIAL CONSIDERATIONS:** ..... None

## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** ..... Local and mechanical exhaust recommended

**RESPIRATORY PROTECTION:** ..... Use NIOSH-approved respirators for dust, mist and/or sulfur dioxide gas, as conditions indicate.

**PROTECTIVE GLOVES:** ..... Chemical gloves (neoprene, nitrile, PVC, natural rubber).

**EYE PROTECTION:** ..... Face shield with chemical splash goggles.

**ADDITIONAL MEASURES:** ..... Wear suitable chemical resistant protective clothing.

## 9 – PHYSICAL / CHEMICAL PROPERTIES

**PHYSICAL STATE:** ..... Liquid

**BOILING POINT:** ..... 212°C

**FLASHPOINT:** ..... NE

**AUTOIGNITION TEMP:** ..... NE

**UPPER EXPLOSION LIMIT (% BY VOL):** ..... NE

**LOWER EXPLOSION LIMIT (% BY VOL):** ..... NE

**VAPOR PRESSURE:** ..... NE

**VAPOR DENSITY (air=1):** ..... >60mm

**EVAPORATION RATE:** ..... Same as water

**SOLUBILITY IN WATER:** ..... Complete

**VOLATILITY INCLUDING WATER:** ..... 50%

**pH:** ..... 6-8

**SPECIFIC GRAVITY:** ..... 0.986-1.006

**ODOR:** ..... Slight odor

**APPEARANCE:** ..... Clear - Light Tan

## 10 – STABILITY and REACTIVITY

**CHEMICAL STABILITY:** ..... Stable

**HAZARDOUS POLYMERIZATION:** ..... Will not occur

**INCOMPATIBLE MATERIALS:** ..... None known

**HAZARDOUS DECOMPOSITION PRODUCTS:** ..... None known

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## 11 – TOXICOLOGICAL INFORMATION

### ROUTES OF ENTRY:

BY EYE CONTACT: ..... Possible

BY SKIN CONTACT: ..... Possible

BY SKIN ABSORPTION: ..... Possible

BY INHALATION: ..... Possible

BY INGESTION: ..... Possible

THRESHOLD LIMIT VALUE (UNITS): ..... NE

ACUTE OVER EXPOSURE EFFECTS: ..... Eye irritant. Lung irritant. Skin irritant.

CHRONIC OVER EXPOSURE EFFECTS: ..... NE

### CARCINOGENIC ACCORDING TO THE FOLLOWING:

NTP? ..... No

IARC MONOGRAPHS? ..... No

OSHA REGULATED ..... No

## 12 – ECOLOGICAL INFORMATION

None available

## 13 – DISPOSAL CONSIDERATIONS

Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules).

## 14 – TRANSPORTATION INFORMATION

### DOT (Department of Transportation)

UN NUMBER: ..... UN2922

DOT SHIPPING NAME: ..... Corrosive Liquid, Toxic, N.O.S.(Contains tributyl tetradecyl phosphonium chloride)

HAZARD CLASS: ..... 8 (6.1)

PACKAGING GROUP: ..... II

LABEL REQUIRED: ..... Corrosive Toxic

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## 15 – REGULATORY INFORMATION

**TSCA STATUS:** ..... ALL COMPONENTS OF THIS PRODUCT ARE LISTED IN THE TSCA INVENTORY OR EXEMPT.

### SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III

Ingredients covered under the following sections:

**CERCLA HAZARDOUS SUBSTANCE:** ..... NA

**SARA Toxic Chemical – SECTION 313 :**..... NA

## 16 – OTHER INFORMATION

<b>HEALTH</b>	3
<b>FLAMMABILITY</b>	0
<b>REACTIVITY</b>	0

### HMIS Rating Scale:

- 0=Minimal
- 1=Slight
- 2=Moderate
- 3=Serious
- 4=Severe

**PREPARED BY** ..... MR  
**DATE OF PREPERATION** ..... 5/21/15  
**DATE OF LAST REVISION** ..... 11/26/12  
**PHONE NUMBER OF PREPARER** ..... (301) 721-BOND

### DISCLAIMER:

The above information and recommendations are accurate to the best of our knowledge. However, the company assumes no liability for the accuracy or completeness of the information contained herein and disclaims all liability for the reliance thereon. All chemicals present unknown health hazards and should be used with caution. The user should satisfy himself by independent investigation that he has all current data relevant to his particular use.

UN – Unavailable    NA – Not Applicable    NE – Not Established