

# MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: BT-311

MSDS NUMBER: 40902BT311

PRODUCT CODE: BOILER WATER DISPERSANT

MSDS DATE: 4/9/02

KEY NUMBER: BT-311

EMERGENCY PHONE #'s: 800-255-3924 (CHEMTEL)



## Advanced Chemical Technology, Inc.

10743 Edison Court • Rancho Cucamonga, CA 91730 USA

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Web: <http://www.actglobal.net> Email: [act@actglobal.net](mailto:act@actglobal.net)

<b>HEALTH</b>	<b>2</b>	Hazardous
<b>FIRE</b>	<b>0</b>	Will Not Burn
<b>REACTIVITY</b>	<b>0</b>	Stable
<b>SPECIFIC</b>	Corrosive - COR	

### 1. IDENTIFICATION

See Addendum: Ref. PAGE:

**Chemical Name:** BT-311

**Chemical Family:** BOILER WATER DISPERSANT

**CAS #:** MIXTURE

**Chemical Formula:** MIXTURE

**CAS Name:** MIXTURE

**Molecular Weight:** MIXTURE

**Synonyms / Common Name:** BOILER WATER TREATMENT, BOILER SCALE INHIBITOR

**DOT Information:** CORROSIVE

### 2. PHYSICAL DATA

See Addendum: Ref. PAGE:

**Appearance:** Brown Liquid

**Color:** Brown

**State:** Liquid

**Odor Characteristics:** Bland

**pH:** >12.5

**Viscosity:** ND

**Specific Gravity (Water = 1):** 1.157

**Vapor Density (Air = 1):** ND

**Vapor Pressure:** ND

**Melting Point:** NA

**Boiling Point:** > 212 F

**Flash Point:** NA

**Freezing Point:** ND

**Percent Volatility:** ND

**Evaporation Rate (BAc = 1):** <1

**Solubility in Water:** Soluble

**Solubility in Oil:** ND

**Solubility in Acetone:** ND

### 3. INGREDIENTS - HAZARDOUS

See Addendum: Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Sodium Hydroxide	1310-73-2	Sodium Hydroxide	2 mg/M3 for 15 minutes	< 12

### 4. FIRE AND EXPLOSION HAZARD DATA

See Addendum: Ref. PAGE:

**Flash Point:** NA

**Flammable Limits in Air % by volume:** Lower NA, Upper NA

**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical for fires in storage areas.

**Special Fire Fighting Procedures:** Keep container cool with water spray. Fire Fighters should wear self-contained breathing apparatus and full protective clothing.

**Unusual Fire & Explosion Hazards:** Dried residue can thermally decompose, giving off irritating and potentially toxic fumes.

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**5. HEALTH HAZARD DATA** See Addendum:

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**Threshold Limit Value:** 2.0 mg/M3 for 15 minutes for sodium hydroxide.**Effects of Overexposure:****Inhalation:** Vapor and mists are corrosive to the nose, throat, and mucous membranes..**Skin Contact:** Causes skin irritation. May cause a more serious response if confined to the skin or if the skin is abraded. A single prolonged exposure is not likely to result in harmful quantities being absorbed.**Eye Contact:** Vapors will irritate the eyes. Liquids and mists can severely irritate or damage the eyes and cause corneal burns..**Ingestion:** This material is corrosive to the mouth and throat.**Delayed Effects:** Prolonged contact may cause severe burns.**Medical Conditions Aggravated by Exposure** Persons with pre-existing skin disorders, eye problems, or impaired respiratory functions may be more susceptible to the effects of this substance.**6. FIRST AID MEASURES** See Addendum:

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**Inhalation:** If breathing stops, give artificial respiration. Call a physician immediately.**Skin Contact:** Immediately remove clothing under a safety shower. Flush all affected areas with large amounts of water for at least 15 minutes.**Eye Contact:** Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Obtain medical attention immediately.**Ingestion:** Do not induce vomiting. If conscious, immediately give large quantities of water. Call a physician or the nearest Poison Control Center immediately.**NOTES TO PHYSICIAN:** None.**7. REACTIVITY DATA** See Addendum:

PAGE #:

**Stability:** Stable**Incompatibility: (materials to avoid)** Compatible with most boiler water treatment compounds at use dosages, do not mix with other industrial chemicals.**Hazardous Combustion or Decomposition Products** Carbon monoxide, carbon dioxide, ammonia, and oxides of nitrogen.**Hazardous Polymerization:** Will not occur.**Conditions to Avoid:** Do not mix with other industrial chemicals.**8. SPILL OR LEAK PROCEDURES** See Addendum:

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**Actions to take for Leaks & Spills** For small spills mop or wipe up. For large spills, contain by diking with soil or other absorbent material. Keep out of sewers, drains, surface waters, and soil.**Waste Disposal Method:** Dilute acid (preferably acetic acid) may be used to neutralize the final traces immediately after flushing. Use D.O.T. approved containers for waste disposal. Dispose of all waste according to Federal, State, and Local regulations.



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**9. SPECIAL PROTECTION INFORMATION**

See Addendum:

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**Respiratory Protection:** NIOSH approved respirator in the absence of adequate environmental controls at the point of use.

**Eye Protection:** Chemical goggles and face shield.

**Skin Protection:** Rubber gloves.

**Other Clothing:** Rubber apron and protective clothes.

**Other Equipment:** None

**Engineering Controls:** Normal

**10. HANDLING AND STORAGE**

See Addendum:

Ref. PAGE:

**Special Precautions:** Do not get in eyes, on skin, or on clothing. Local mechanical exhaust ventilation capable of maintaining emissions at the point of use below the PEL.

**Other Precautions:** An eyewash and safety shower should be nearby and ready for use. Avoid storing in areas of high heat. Keep from freezing.

**11. REGULATORY INFORMATION**

See Addendum:

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**Workplace Classification:** NA

**12. TOXICOLOGICAL INFORMATION**

See Addendum:

Ref. PAGE:

**Acute Data:** NE

**Reproductive /  
Teratology Data** NE

**13. ECOLOGICAL INFORMATION**

See Addendum:

Ref. PAGE:

**Fate in the Environment:** NE

**14. DISPOSAL CONDITIONS**

See Addendum:

Ref. PAGE:

**Procedures:** Dispose of all waste according to Federal, State, and Local regulations.

**15. TRANSPORTATION INFORMATION**

See Addendum:

Ref. PAGE:

**DOT Classification:** Corrosive, Caustic Liquid, UN 1719, PG II (Contains Sodium Hydroxide, Liquid)

**Warning Labels:** CORROSIVE



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**ADDENDUM for Section - 11. REGULATORY INFORMATION - Ref. Pg. 3**

California Proposition 65 Status- This product does not contain chemicals currently on the California list of known carcinogens and reproductive toxins.

**ADDENDUM for Section - Other Information**

NA = Not Applicable

ND = Not Determined

NE = Not Established

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**ADDENDUM for Section -**