

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME: **Britener**

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PRODUCT TYPE: **STAIN REMOVAL**

3/27/12

MANUFACTURERS FOR: **SPR International Inc. PHONE 770-966-1331 OR 3-E 800-451-8346 (24 HOUR]**

ADDRESS:320K Northpoint Parkway SE, Acworth, GA 30102

SECTION 1: PRODUCT IDENTIFICATION

This material safety data sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazardous Communications Standard, 29 CFR 1910.1200. This product may be considered to be a hazardous chemical under that standard. (Refer to the OSHA Classification in section 1.) This information is required to be disclosed for safety in these workplaces.

Chemical Family: **Oxidizing Agent**. Shipping name and Hazardous Class (DOT) : "Hypochlorite solution containing Less than 6% available chlorine by weight. UN1791 (RQ45.4/100).

SECTION 2: HAZARDOUS INGREDIENTS

Hazardous Ingredients	Cas No.	Limits
Sodium Hypochlorite	7647-14-5	<6%
Sodium Hydroxide	1310-73-2	<.2% ACGIH PEL= 2 Other TLV = 2 Hazard Limit = 2
Sodium Carbonate	471-34-1	<.8%
Inorganic Salts of Copper	None	<.5%
Fragrance	None	<.5%
Surfactant	None	<.5%
Other Inorganic Salts	None	<.5%
Other ingredients		Preparatory requiring no disclosure
Water	7732-18-5	Balance

(Sara) Any Ingredient so designated is subject to reporting under Sara Title III. Section 313 and 40 CFR Part 372

SECTION 3: PHYSICAL AND CHEMICAL CHARACTERISTICS

Concentration 2-5%	Solubility in Water 100%
Boiling Point 219-222F	Specific Gravity 1.73-1.211
Percent Volatile 85	Vapor Density NA
Physical State Liquid	Odor is Pungent. Color is Clear Yellow/Green
Flash Point NA	Vapor Pressure 50-56 mm Hg
Extinguisher Media NA	Evaporation Rate NA
Special Fire Fighting Procedures Self Contained Breathing Apparatus Needed In a Fire	
Unusual Fire and Explosion Hazards Hydrogen Chloride will be Emitted if involved in a Fire.	

SECTION 4: FIRST AID MEASURES

If inhaled: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention. In case of eye contact: Immediately flush eyes with lots of running water for 15 minutes, lift the upper and lower eyelids occasionally. Get immediate medical attention. In case of skin contact: Immediately flush skin with lots of running water for 15 minutes. Remove contaminated clothes and shoes; wash before use. Get immediate medical attention. If swallowed: DO NOT INDUCE VOMITING. If conscious, give lots of water or milk, or milk of magnesia. Do not give baking soda or acid antidotes. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION 5: HEALTH HAZARD DATA

Signs and Symptoms of Exposure:

Inhalation: Fumes or mist causes respiratory tract irritation and irritation of mucous membranes. If sodium Hypochlorite is mixed with ammonia or other chemicals, evolution of chlorine or chlorine-based compounds results. These gases can produce pulmonary edema.

Eyes and Skin: The liquid and mist may severely irritate the eyes or skin causing redness and possibly inflammation.

Swallowing: Mist and liquid are extremely corrosive to the mouth and throat, mucous membrane, and stomach. Swallowing the liquid burns the tissue, and causes severe abdominal pain, nausea vomiting, circulatory collapse, confusion delirium, coma, and collapse. Swallowing large quantities can cause death.

Chronic effects: Irritation effects increase with strength of solution and time of exposure. Prolonged or repeated exposure can lead to constant irritation to eyes and throat. Prolonged or repeated exposure can cause dermatitis and sensitization. No reported medical conditions generally aggravated by exposure.

SECTION 6: TOXICITY DATA

Oral: for 5% solution rate LD50 = 13 G/KG

Dermal: Rate LD50 = 3.0 G/KG

Inhalation: No Data Available

Carcinogenicity: This material is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Cancer Research, or the OSHA.

SECTION 7: PERSONAL PROTECTION INFORMATION

General: Avoid skin and eye contact and breathing of vapor.

Protective Equipment: Chemical goggles or face shield unless a face piece respirator is worn. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of the eye injury. Long-sleeve shirt, trousers, rubber boots, impervious rubber gloves, and rubber apron.

Ventilation: Local mechanical exhaust ventilation capable of minimizing emissions at the point of use. Appropriate respirator may be a full-face piece or a half-mask air purifying cartridge equipped for acid gases/moist, self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator.

Other: An eyewash and safety shower should be near by and ready for use.

SECTION 8: FIRE AND EXPLOSION INFORMATION

Flash Point, Degree F: Not Flammable Flammable limits in air, %

Method used: NA Lower: NA Upper: NA

Special Fire fighting procedures: Fire fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray nearby containers and structures exposed to fire.

Unusual fire and explosion hazards: Containers of this material can explode as oxygen is liberated under high heat or fire conditions. Toxic fumes similar to chlorine gas are liberated by contact with acids, ammonia, some cleaning detergents, organic materials, oxidizing agents, and some reducing agents. See Special precautions section for TLV of elemental chlorine. Highly exothermic reactions with organic materials and oxidizable materials cause fire.

SECTION 9: HAZARDOUS REACTIVITY

Stability: Stable Polymerization: Will not occur.

Stability decreases with increased concentration, heat, light exposure, decreases in pH and contamination with heavy metals such as nickel, cobalt, copper, and iron.

Conditions to avoid: Excessive heat, exposure to light, reduced alkalinity, and contamination of any kind.

Materials to avoid: Ether, ammonia, oxidizing agents, reducing agents, oxidizable or combustible materials such as wood, clothing, or organic materials, heavy metals such as iron, copper, magnesium, aluminum, tin, manganese, zinc, chromium, nickel, and their alloys.

Hazardous decomposition products: HOCL, Chlorine, HCL, NACL, Sodium Chlorate, and oxygen which depends on pH, temperature and time.

SECTION 10: SPILL, LEAK, AND DISPOSAL PROCEDURES

SPECIAL PRECAUTIONS AND SPILL OR LEAK PROCEDURES Actions to take for spills or leaks: Wear alkali-resistant slicker suit and complete protective equipment including rubber gloves, rubber boots, and self-contained breathing apparatus in the pressure-demand mode or a supplied-air respirator. If the spill or leak is small, a full-faceplate air-purifying cartridge respirator equipped with acid gas/mist filters may be satisfactory. In any event always wear eye protection. For small spills or drips, mop up, wipe up, and dispose of in DOT-approved waste containers. For large spills, contain by diking with soil or other non-combustible absorbent material and carefully neutralize with diluted sodium bisulfate. Keep non-neutralized materials out of sewers, storm drains, surface waters, and soil. This product is very toxic to aquatic life in a concentrated solution.

Handling and Storage: Store in closed, original container away from incompatible materials listed above. Do not mix with any other chemical unless specifically directed Use only with good ventilation.

Release or Spill: Neutralize with sodium bicarbonate to pH 6 to 9 and flush to sewer with lots of water.

Waste Disposal: Un-neutralized material must be disposed of as in compliance with all applicable government regulations a HAZARDOUS, CORROSIVE WASTE. Contact your local or state ENVIRONMENTAL AGENCY for guidance.

SECTION 11: SPECIAL PRECAUTIONS

Storage and handling precautions: Store in a cool, dry, well-ventilated place away from incompatible material. Keep containers tightly closed and vented when not in use. Do not use pressure to remove from containers. Wash thoroughly after handling. Do not get on clothing, skin, or in eyes.

Store in original containers only at temperature below 85 Degrees F. Do not store near acids, oxidizable materials, or organic. Do not store on a wooden floor.

Repair and maintenance precautions: None

Other precautions: Containers, even those that have been emptied, will retain products residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. Do not mix or contaminate this product with ammonia, acids, hydrocarbons, alcohols, ethers, reducing agents, oxidizers, cleaning agents, or other products that may liberate chlorine or other toxic vapors. For elemental chlorine, the OSHA PEL is PPM. The ACG1H is 1 PPM, TWA, and the STEL is 3 PPM. EPA disinfection or sanitization act (TSCA) Inventory of Chemical Substances.

SECTION 12: NOTICE

SPR International Inc. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein.

All information appearing herein is based upon data and/or recognized technical sources. While the information is believed to be accurate, SPR International Inc. makes no representations as to its accuracy or sufficiency. Conditions of use are beyond SPR International Inc. control, and therefore, users to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes, and they assume all risk of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated, and does not relate to its use in combination with any other materials or in any other process.

Note from SPR International Inc.: The product, if used in a confined area and in concentrated amounts, could be a cause for some concern, however, this product has been used in a diluted form, on roofs of homes and buildings for many years with 100% success. It has not been harmful to plants, animals, or humans in any way. SPR International Inc. has not had any loss associated with its use nor have any of its dealers recorded any loss from its use.

USE ONLY AS DIRECTED

NA=NOT APPLICABLE, ND=NOT DETERMINED