

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Producer/Distributor:  
 GS Liquid Technologies, LLC  
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Product Name: Better Value Bleach  
 Chemical name: Sodium Hypochlorite (< 7%)

Synonyms: Bleach  
 Date of Issue: 03/15/2006

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
Sodium Hypochlorite	2.75 - 3	7681-52-9
Sodium Chloride	1.25 - 5	7647-14-5
Sodium Hydroxide	.125-1.0	1310-73-2
Water	Remainder	7732-18-5

SECTION 3 – HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS	
ACGIH – TLV:	Not established
Eye Contact	May cause severe pain, blurred vision, tearing, redness and swelling. Prolonged contact or contact with concentrated solutions may cause burning.
Skin Contact	May cause mild to moderate skin irritation. Prolonged contact or contact with concentrated solutions may cause a bleaching of the skin and may cause redness, pain, blistering, itchy eczema and possible burns.
Ingestion	May cause pain and inflammation of the mouth, throat, esophagus and stomach. Can cause erosion of mucus membranes especially in the stomach.
Inhalation	Vapors may cause slight to severe irritation of the respiratory tract. High concentrations may cause sore throat, blistering, delayed pulmonary edema (swelling of lung tissue) and shortness of breath.
Carcinogenicity	NTP no IARC no OSHA no

SECTION 4 – FIRST AID PROCEDURES

Eye Contact	Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention.
Skin Contact	Immediately remove any contaminated clothing or footwear. Wipe all excess from skin and flush affected area with water for at least 15 minutes. Use soap and water if possible. If not immediately available wash with soap and water at first possible opportunity. Do not reuse contaminated clothing or footwear until cleaned and free of contamination.
Ingestion	DO NOT INDUCE VOMITTING. Rinse mouth with water. If conscious, give large amounts of water or milk and get immediate attention. Do not provide anything by mouth to an unconscious person.
Inhalation	Remove victim to fresh air and provide oxygen if victim is having breathing difficulties. Give artificial respiration to victim if not breathing.

### SECTION 5 – FIRE FIGHTING MEASURES

Flash Point	Nonflammable
Extinguishing Media	Use the media recommended for the surrounding area.
Special Firefighting Procedures/Precautions	Wear self-contained breathing apparatus (SCBA) and full; protective gear. Stay upwind and out of low lying areas.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

For Spills: All material should be contained in a plastic disposal container. Action should be taken to avoid any liquid from entering any sewer or waterway. No combustible absorbents should be used. All personnel should wear protective clothing and avoid contact with any liquids. All personnel should wear appropriate respiratory protection.

### SECTION 7 – HANDLING AND STORAGE

Keep ALL containers tightly closed. Store all materials in a cool, dry and well-ventilated area, away from any heat source and away from combustible materials. Containers should be protected from punctures, impact and tipping.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection	Use NIOSH approved respiratory protection. Canister type respirators should have cartridges approved for chlorine. In case of fire, all personnel should wear SCBA.
Ventilation	Mechanical ventilation is recommended.
Protective Gloves	Chemical impervious gloves.
Eye/Face Protection	Chemical safety goggles and or full face shield.
Other Protection	Chemical resistant clothing such as cover-alls, aprons, waterproof footgear.
Work Practices	Good personal hygiene practices are required. Wash hands after contact or possible contact and before regular life activities such as eating, using the restroom, etc.

### SECTION 9 – PHYSICAL AND CHEMICAL

Boiling Point –	<i>decomposes</i>	Specific gravity -	<i>1.035 to 1.040</i>
Freezing point -	<i>11-18f</i>	Evaporation Rate -	<i>not established</i>
Solubility -	<i>H<sub>2</sub>O complete</i>		
PH -	<i>11-12</i>		

### SECTION 10 – STABILITY AND REACTIVITY

Chemically Stable:	Yes
Incompatible materials:	All acid materials, ammonia, urea, metals and other oxidatable materials, such as iron, nickel, copper, tin.
Decomposition products:	Chlorine gas rate of decomposition increases with higher temperatures above 85 degrees F.
Polymerization:	None

### SECTION 11 – TOXICITY

Oral (rat) = > 8000 mg/kg	Dermal LD50 = N.E. Inhalation LC50= > 10.5 mg/l (rat)
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### SECTION 12 DISPOSAL

Waste materials must be disposed of according to all state, local and federal regulations.

SECTION 13 – TRANSPORTATION INFORMATION

USA DOT shipping name: Sodium hypochlorite solution less than 7% available chlorine  
Hazard Class: Not Restricted  
UN/NA Number: UN1791  
Packing Group: III  
Marine Pollutant: No

SECTION 14. – REGULATORY INFORMATION

CERCLA RQ: 100 lbs.  
SARA Title III, Section 312: Acute only  
SARA Title III, Section 313: No  
SARA Extremely hazardous substance: No

SECTION 15 -- HMIS HAZARD RATING

Health - 2                      Fire - 0                      Reactivity -- 1  
0-least 1-slight 2-moderate 3-high 4-extreme

SECTION 16 -- OTHER INFORMATION

Pursuant to the Toxic Substance Control Act ("TSCA") all suppliers of raw materials assure that the chemical ingredients are in compliance with the Chemical substance inventory and are in compliance with the TSCA.

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