

**CLOROX CO -- CLOROX BLEACH - FOR INSTITUTIONAL USE -- 6810-01-457-0255**

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Product Identification  
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Product ID:CLOROX BLEACH - FOR INSTITUTIONAL USE  
MSDS Date:11/01/1992  
FSC:6810  
NIIN:01-457-0255  
Status Code:A  
=== Responsible Party ===  
Company Name:CLOROX CO  
Address:1221 BROADWAY  
Box:24305  
City:OAKLAND  
State:CA  
ZIP:94612  
Country:US  
Info Phone Num:510-271-7000  
Emergency Phone Num:800-446-1014; 800-424-9300  
Chemtrec Ind/Phone:(800)424-9300  
CAGE:93098  
=== Contractor Identification ===  
Company Name:CLOROX CO THE HEADQUARTERS  
Address:1221 BROADWAY  
Box:24305  
City:OAKLAND  
State:CA  
ZIP:94612-1305  
Country:US  
Phone:510-271-7000  
CAGE:93098

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Composition/Information on Ingredients  
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Ingred Name:SODIUM HYPOCHLORITE  
CAS:7681-52-9  
RTECS #:NH3486300  
= Wt:5.25  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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Hazards Identification  
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:CAUSES SUBSTANTIAL BUT TEMPORARY EYE  
INJURY. MAY IRRITATE SKIN. MAY CAUSE NAUSEA AND VOMITING IF  
INGESTED. EXPOSURE TO VAPOR OR MIST MAY IRRITATE NOSE, THROAT AND  
LUNGS. UNDER NORMAL CONSUMER USE COND ITIONS THE LIKELIHOOD OF ANY  
ADVERSE HEALTH EFFECTS ARE LOW. NONE OF THE INGREDIENTS IN THIS  
PRODUCT ARE ON THE IARC, NTP OR OSHA CARCINOGEN LIST. OCCASIONAL  
CLINICAL REPORTS SUGGEST A LOW POTENTIAL F OR SENSITIZATION UPON  
EXAGGERATED EXPOSURE TO SODIUM HYPOCHLORITE IF SKIN DAMAGE(EG  
IRRITATION) OCCURS DURING EXPOSURE. ROUTINE CLINICAL TESTS  
CONDUCTED ON INTACT SKIN WITH CHLOROX LIQUID BLEACH FOUND NO  
SENSITIZATION IN THE TEST SUBJECTS.  
Effects of Overexposure:SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure:FOLLOWING MED CNDTNS MAY BE  
AGGRAVATED BY EXPOS TO HIGH CONCS OF VAPOR OR MIST: HEART CNDTNS OR  
CHRONIC RESP PROBS SUCH AS ASTHMA, CHRONIC BRONCHITIS OR  
OBSTRUCTIVE LUNG DISEASE.

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===== First Aid Measures =====

First Aid:EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER. IF  
IRRITATION PERSISTS, SEE A DOCTOR. SKIN CONTACT: REMOVE  
CONTAMINATED CLOTHING. WASH AREA WITH WATER. INGESTION: DRINK A  
GLASSFUL OF WATER AND CALL A PHYSICIAN. INHALATION: IF BREATHING  
PROBLEMS DEVELOP REMOVE TO FRESH AIR.

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===== Fire Fighting Measures =====

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE .  
Fire Fighting Procedures:USE NIOSH APPROVED SCBA AND FULL PROTECTIVE  
EQUIPMENT . IN A FIRE, COOL CONTAINERS TO PREVENT RUPTURE AND  
RELEASE OF SODIUM CHLORATE.  
Unusual Fire/Explosion Hazard:NOT FLAMMABLE OR EXPLOSIVE.

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===== Accidental Release Measures =====

Spill Release Procedures:SMALL SPILLS (<5 GALLONS): 1)ABSORB,  
CONTAINERIZE, AND LANDFILL I/A/W LOCAL REGULATIONS. 2)WASH DOWN  
RESIDUAL TO SANITARY SEWER. LARGE SPILLS (>5 GALLONS): 1)ABSORB,  
CONTAINERIZE AND LANDFILL I/A/W LOCAL REGULATIONS; WASH DOWN  
RESIDUAL TO SANITARY SEWER - OR (2) PUMP MATERIAL TO WASTE DRUM(S)  
AND DISPOSE OF I/A/W LOCAL REGULATIONS; WASH DOWN RESIDUAL TO  
SANITARY SEWER.

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===== Handling and Storage =====

Handling and Storage Precautions:KEEP OUT OF THE REACH OF CHILDREN.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR  
EXPOSURE OF CONCERN .  
Ventilation:USE GENERAL VENTILATION TO MINIMIZE EXPOSURE TO VAPOR OR  
MIST.  
Protective Gloves:IMPERVIOUS GLOVES .  
Eye Protection:ANSI APPROVED CHEMICAL WORKERS GOGGLES .  
Other Protective Equipment:ANSI APPROVED EYE WASH AND DELUGE SHOWER .  
Work Hygienic Practices:AVOID EYE AND SKIN CONTACT AND INHALATION OF  
VAPOR OR MIST.  
Supplemental Safety and Health  
MATLS TO AVOID: WITH METAL MAY CAUSE PITTING OR DISCOLORATION.

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===== Physical/Chemical Properties =====

Boiling Pt.=100.C, 212.F  
B.P. Text:DECOMPOSES  
Decomp Temp.=100.C, 212.F  
Spec Gravity:1.085 (H\*20=1)  
pH:11.4  
Solubility in Water:COMPLETE

Appearance and Odor: CLEAR, LIGHT YELLOW LIQUID WITH CHLORINE ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES  
STRONG OXIDIZING AGENT. REACTS W/OTHER HOUSEHOLD CHEMICALS SUCH AS  
TOILET BOWL CLEANERS, RUST REMOVERS, VINEGAR, ACIDS OR AMMONIA  
CONTAINING PRODUCTS TO PRODUCE HAZARDOUS GASES SUCH AS CHLORINE AND  
OTHER CHLORINATED SPECIES.  
Stability Condition to Avoid: STABLE UNDER NORMAL USE AND STORAGE  
CONDITIONS.

===== Toxicological Information =====

Toxicological Information: ORAL (HUMAN): LDLO: 3570 MG/KG. ORAL (RAT):  
LD50: 5045 MG/KG. INHALATION (RAT): LC50: 16000PPM/8HOUR. TEST ON  
LABORATORY ANIMALS INDICATE ISOPROPYL ALCOHOL MAY PRODUCE ADVERSE  
MUTAGENIC AND REPRODUCTIVE EFFECTS IN ANIMALS.

===== Ecological Information =====

Ecological: DO NOT ALLOW PRODUCT TO CONTAMINATE PONDS, WATERCOURSES,  
SOIL OR DRAINS. DO NOT DISPOSE OF PRODUCT DOWN THE DRAIN.

===== Disposal Considerations =====

Waste Disposal Methods: DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL,  
STATE AND LOCAL REGULATIONS .

===== MSDS Transport Information =====

Transport Information: US DOT HAZARD CLASS: NOT RESTRICTED. US DOT  
PROPER SHIPPING NAME: HYPOCHLORITE SOLUTION WITH NOT MORE THAN 7%  
AVAILABLE CHLORINE. NOT RESTRICTED PER 49 CFR 172.101(C) (12) (IV).

===== Regulatory Information =====

SARA Title III Information: EPA CERCLA/SARA TITLE III SUPERFUND  
AMENDMENT AND REAUTHORIZATION ACT: CERCLA/304 - SODIUM HYPOCHLORITE  
RQ: 100 LBS. SODIUM HYDROXIDE: RQ 1000 LBS, 311/312: YES.  
State Regulatory Information:

===== Other Information =====

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