



**Clorox Professional Products Company**  
 A Subsidiary of The Clorox Company  
 1221 Broadway  
 Oakland, California 94612  
 Tel. (510) 271-7000

# Material Safety Data Sheet

<b>I Product:</b> CLOROX® GERMICIDAL BLEACH								
<b>Description:</b> CLEAR, LIGHT YELLOW LIQUID WITH CHLORINE ODOR								
<b>Other Designations</b>	<b>Distributor</b>	<b>Emergency Telephone No.</b>						
	Clorox Professional Products Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies Call: Rocky Mountain Poison Center (800) 446-1014 For Transportation Emergencies Chemtrec (800) 424-9300						
<b>II Health Hazard Data</b>		<b>III Hazardous Ingredients</b>						
<p><b>WARNING:</b> Eye irritant. Avoid eye contact. 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. The following medical conditions may be aggravated by exposure to high concentrations of vapor or mist; heart conditions or chronic respiratory problems such as asthma, chronic bronchitis or obstructive lung disease. Under normal consumer use conditions the likelihood of any adverse health effects are low. Occasional clinical reports suggest a low potential for sensitization upon exaggerated exposure to sodium hypochlorite if skin damage (e.g. irritation) occurs during exposure. Routine clinical tests conducted on intact skin with Clorox Liquid Bleach found no sensitization in the test subjects.</p> <p><b>FIRST AID:</b> <b>EYE CONTACT:</b> Immediately flush eyes with plenty of water. If irritation persists, see a doctor. <b>SKIN CONTACT:</b> Remove contaminated clothing. Wash area with water. <b>INGESTION:</b> Drink a glassful of water and call a physician. <b>INHALATION:</b> If breathing problems develop remove to fresh air.</p> <p style="text-align: right;">HMIS/NFPA: H=2, F=0, R=1        HMIS Hazard Scale: 1=slight 2=moderate 3=serious 4=severe</p>		<table border="1"> <thead> <tr> <th>Ingredients</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Sodium hypochlorite CAS # 7681-52-9</td> <td>5.25%</td> <td>not established</td> </tr> </tbody> </table> <p>None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen list.</p>	Ingredients	Concentration	Worker Exposure Limit	Sodium hypochlorite CAS # 7681-52-9	5.25%	not established
Ingredients	Concentration	Worker Exposure Limit						
Sodium hypochlorite CAS # 7681-52-9	5.25%	not established						
<b>IV Special Protection and Precautions</b>		<b>V Transportation and Regulatory Data</b>						
<p><b>Hygienic Practices:</b> <b>Non-dilute:</b> Wear eye protection such as safety glasses in situations where splashing may occur. Discontinue use or wear gloves if product use irritates your skin. <b>Dispensing System:</b> Eye protection is not required when used with a Clorox approved closed dispensing system. <b>Diluted to 200 ppm Available Chlorine:</b> Eye protection is not required. Discontinue use or wear gloves if solution irritates your skin. <b>Engineering Controls:</b> Use general ventilation to minimize exposure to vapor or mist.</p> <p><b>Work Practices:</b> Avoid eye and skin contact and inhalation of vapor or mist.  <b>KEEP OUT OF THE REACH OF CHILDREN.</b></p>		<p><b>U.S. DOT Hazard Class:</b> Not restricted  <b>U.S. DOT Proper Shipping Name:</b> Hypochlorite solution with not more than 7% available chlorine. Not Restricted per 49CFR172.101(c)(12)(iv).  <b>EPA - SARA Title III/CERCLA:</b> Bottled product is not reportable under Sections 311/312; contains no chemicals regulated under Section 313; and contains a chemical (sodium hypochlorite ≤ 5.25%) which is regulated under Section 304/CERLA.  <b>TSCA/DSL:</b> All chemicals in this product are listed on the TSCA inventory and the Canadian Domestic Substances List.</p>						
<b>VI Spill or Leak Procedures</b>		<b>VII Reactivity Data</b>						
<p><b>Spill Procedures:</b> Absorb, containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material. For spills of multiple products, responders should evaluate the MSDS's of the products for incompatibility with sodium hypochlorite. Breathing protection should be worn in enclosed, and/or poorly ventilated areas until hazard assessment is complete. <b>Waste disposal:</b> Dispose of in accordance with all applicable federal, state and local regulations.</p>		<p>Stable under normal use and storage conditions. Strong oxidizing agent. Reacts with 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. Prolonged contact with metal may cause pitting or discoloration.</p>						
<b>VIII Fire and Explosion Data</b>		<b>IX Physical Data</b>						
<p>Not flammable or explosive. In a fire, cool containers to prevent rupture and release of sodium chlorate.</p>		<p>Boiling point _____ 212°F/100°C decomposes)          Specific Gravity (H<sub>2</sub>O=1) _____ 1.085          Solubility in Water _____ complete          pH _____ 11.4</p>						

Attn: Janet  
423-442-3256  
10 pages

Aus 360

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Austin A-1 Bleach (Regular, Fresh, Lemon, Floral)

PRODUCT CODE 54200-00018 00021 00024 00025 00035 00040 00044 00045

ISSUE DATE June 11, 1999

#### EMERGENCY TELEPHONE NUMBERS

MANUFACTURER James Austin Company  
STREET ADDRESS 116 Downsview Road  
CITY, STATE, ZIP Mars, PA 16040

Medical Information (800) 228-5635 x234  
Transportation: (800) 424-9300 \*  
\* For spill, leak, fire or transport accident emergencies.  
Product information: (724) 625-1535

### SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS No.	% by wt / % by vol	EXPOSURE LIMITS		
			OSHA PEL	ACGIH TLV	NIOSH REL
Sodium hypochlorite	7681-52-8	5.29 - 5.4	None	None	None
Sodium hydroxide	1310-73-2	0.03 - 0.22	2 mg/m <sup>3</sup> TVA	2 mg/m <sup>3</sup> ceiling	10 mg/m <sup>3</sup> IDLH 2 mg/m <sup>3</sup> STEL

### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** IRRITANT; may cause severe skin and eye irritation or chemical burns to broken skin. Vapors extremely irritating to eyes and respiratory tract. Harmful and potentially fatal if swallowed. If mixed with other prohibited chemicals or materials, chlorine gas will be released which is also irritating to eyes, lungs, mucous membranes and in some cases can be fatal. (see Section 10 for more information)

POTENTIAL HEALTH EFFECTS	
INGESTION	Can cause corrosion of mucous membranes, severe esophageal burns and perforation of esophagus or stomach.
INHALATION	Inhalation of vapors can cause bronchial irritation, coughing, difficulty in breathing, nausea and pulmonary edema.
EYE CONTACT	Irritating to the eyes; may cause severe and permanent damage.
SKIN CONTACT	Severe irritant; contact can produce blistering and eczema.

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5109 NATIONAL DR., KNOXVILLE, TN 37914

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**SECTION 4 - FIRST AID MEASURES**

<b>INGESTION</b>	If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of water or milk. Do not give liquids if victim is unconscious. Do not use acidic antidotes or sodium bicarbonate (baking soda). Do not administer alcohol. Call a physician or poison control center immediately.
<b>INHALATION</b>	If exposed to excessive vapor levels, remove to fresh air and seek medical attention if cough or other symptoms develop.
<b>EYE CONTACT</b>	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes. Get medical attention immediately.
<b>SKIN CONTACT OR CLOTHING CONTACT</b>	Flush affected skin area with copious amounts of water and wash with soap and water. If irritation develops or persists, get medical attention. Remove clothing and wash before reuse.
<b>NOTE TO PHYSICIAN</b>	Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Clinical Toxicology of Commercial Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland. See listing for Hypochlorite in Therapeutics Index, Section II.

**SECTION 5 - FIRE FIGHTING MEASURES**

<b>FLASH POINT / METHOD</b>	None / N.A.	<b>FLAMMABLE LIMITS</b>	Not combustible
<b>EXTINGUISHING MEDIA</b>	If involved in a fire, alcohol foam, carbon dioxide, dry chemical or water fog. Use extinguishing media that is appropriate for surrounding fire.		
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Avoid fumes from spilled or exposed liquid. Firefighters should wear full protective clothing and OSHA/NIOSH self-contained breathing apparatus. Cool fire-exposed containers with water spray from a safe distance.		
<b>FIRE AND EXPLOSION HAZARDS</b>	Sodium hypochlorite bleach is a strong oxidizing agent and decomposes when heated. Decomposition products may cause containers to explode. Vigorous reactions may occur with organic materials or oxidizable materials, causing fire.		

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>RESPONSE TO SPILLS</b>	Small spills: Dilute product by flooding area with large quantity of water and flush to sanitary sewer. Large spills: Contain run-off by diking with suitable material. Soak up liquid on inert absorbent and transfer to approved container. Prevent spill from entering sewers or waterways.
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**SECTION 7 - HANDLING AND STORAGE**

<b>HANDLING PRECAUTIONS</b>	Wash after handling and before eating. Use personal protective equipment and wear suitable chemical-resistant clothing. Keep container tightly closed when not in use. Follow label directions closely.
<b>STORAGE PRECAUTIONS</b>	Store upright in a cool (below 85 F), dry, well-ventilated area. Keep away from heat or direct sunlight. Separate from incompatible materials, such as acids, ammonia, soap-based products or organic materials. Protect containers from physical damage. Keep away from children.

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**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>HYGIENIC PRACTICES</b>	Avoid breathing vapors. Do not store near food stuffs, water or feed. Protect eyes, skin and clothing from contact with this product.
<b>ENGINEERING CONTROLS</b>	Use local ventilation to remove vapors at the source. Facilities using this product must be equipped with an exhaust system.

**PERSONAL PROTECTIVE EQUIPMENT**

<input checked="" type="checkbox"/> RESPIRATOR	Not normally necessary; use NIOSH approved respirator for concentrated vapors
<input checked="" type="checkbox"/> GOGGLES / FACE SHIELD	Required; goggles should be chemical splash type. Face shield is best choice
<input checked="" type="checkbox"/> APRON	Recommended to avoid skin contact and protect clothing from damage
<input checked="" type="checkbox"/> GLOVES	Required; use impervious PVC or Neoprene with long gauntlet
<input checked="" type="checkbox"/> BOOTS	Recommended to protect shoes and feet when using product for floor cleaning

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE</b>	Clear pale yellow liquid	<b>BOILING POINT</b>	212 deg F
<b>ODOR</b>	Chlorine	<b>FREEZING POINT</b>	28 deg F
<b>pH</b>	11.5 - 12.5	<b>VAPOR PRESSURE</b>	17.5 mm Hg @ 20 C
<b>SPECIFIC GRAVITY</b>	1.080	<b>VAPOR DENSITY</b>	Not applicable
<b>SOLUBILITY IN WATER</b>	Complete	<b>EVAPORATION RATE</b>	Not applicable

**SECTION 10 - STABILITY AND REACTIVITY**

<b>CHEMICAL STABILITY</b>	<input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE
<b>CONDITIONS TO AVOID</b>	Heat or direct sunlight; temperatures above 85 F. NEVER mix with solutions containing ammonia.
<b>INCOMPATIBILITY</b>	Acids, ammonia, ether, urea, oxidizable materials, soaps, oils, greases, phenolic disinfectants and metals (including nickel, copper, tin, aluminum and iron).
<b>HAZARDOUS PRODUCTS OF DECOMPOSITION</b>	Chlorine gas -- from contact with highly acidic materials. Chloramines -- from contact with ammonia. Polychlorinated phenols -- from contact with phenolic disinfectants.
<b>POLYMERIZATION</b>	<input checked="" type="checkbox"/> WILL NOT OCCUR <input type="checkbox"/> MAY OCCUR
<b>CONDITIONS TO AVOID CONTAINING TO AVOID</b>	Not applicable

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**CARCINOGENICITY**

<input checked="" type="checkbox"/>	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
<input type="checkbox"/>	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910.2

**OTHER EFFECTS**

<b>CHRONIC</b>	Not determined
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SECTION 12 -- ECOLOGICAL INFORMATION

BIODEGRADABILITY	CONSIDERED BIODEGRADABLE	<input checked="" type="checkbox"/>	NOT BIODEGRADABLE	<input type="checkbox"/>
BOD / COD VALUE	Not established			
ECOTOXICITY	No data available			

SECTION 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	If in accordance with an NPDES permit or approved by local sewage treatment plant authority, bleach solutions may be diluted in a sanitary sewer with plenty of water. Large amounts of unused product must be disposed of as hazardous waste at an approved hazardous waste management facility.			
RCRA CLASSIFICATION	Hazardous, corrosive D002 (if pH is equal to or greater than 12.5)			
RECYCLE CONTAINER	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
	CODE	2 - HDPE		

DOT CLASSIFICATION	HAZARDOUS	<input checked="" type="checkbox"/>	NOT HAZARDOUS	<input type="checkbox"/>
DOT Proper Shipping Name	Hypochlorite Solution			
Hazard Class	8			
Identification Number	UN 1791			
Packing Group	III			
Label/Placard	Corrosive Sodium Hypochlorite 100 lbs. (45.4Kg)			
EXCEPTIONS	Consumer Commodity, ORM-D. Exempted by DOT for containers of 1 gallon or less			

SECTION 15 -- REGULATORY INFORMATION

REGULATORY STATUS		1672-20004 Registration Number (Regulation-scanted item only)
<input checked="" type="checkbox"/>	EPA REGISTERED (UNDER FIFRA)	
<input type="checkbox"/>	FDA REGULATED	
<input type="checkbox"/>	KOSHER	
<input type="checkbox"/>	MSHA TITLE III MATERIAL	
<input type="checkbox"/>	USDA AUTHORIZED	Yes

SECTION 16 -- OTHER INFORMATION

NFPA CLASSIFICATION		
2	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
0	YELLOW	REACTIVITY
COR	WHITE	SPECIAL HAZARD

Approved Specifications  
 Federal Specification O-8-802E  
 Commercial Item Description A-1427C

Information contained in this MSDS refers only to the specific material designated and does not relate to any products or uses involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by James Austin Company in connection with the use of this information.

Distributed By: KEL-SAN, INC.  
P. O. BOX 51565 KNOXVILLE, TN 37914

487252

PRODUCT NAME(AS USED ON LABEL): LIQUID BLEACH - HOUSEHOLD-5 1/4X

ALTERNATE PRODUCT NAME(S): VARIOUS BRANDED AND PRIVATE NAMES

MATERIAL SAFETY DATA SHEET(MSDS) COMPLIES WITH  
OSHA HCS 29 CFR 1910.1200 AND OSHA 174 (9/85)

NOTE:N/A=NOT APPLICABLE. ND=NOT DETERMINED. NIF=NO INFORMATION FOUND.

SECTION I

\*\*\*\*\*

MANUFACTURER/DISTRIBUTOR NAME: THE DIAL CORPORATION

ADDRESS:

111 WEST CLARENDON AVE.

PHOENIX, AZ 85077

\*\*EMERGENCY TELEPHONE NUMBER:(602) 253-3334\*\*

TELEPHONE NUMBER FOR GENERAL INFORMATION:(602) 991-3000

DATE PREPARED: 07/17/87

MSDS #C-103/R2

REVISION: 2

SECTION II-HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

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FINISHED PRODUCT: OSHA (PEL)-N/A ACGIH (TLV)-N/A

HAZARDOUS COMPONENTS:

CHEMICAL/Common Name	OSHA PEL	ACGIH TLV	OTHER LIMITS	CAS NUMBER
SODIUM HYPOCHLORITE	1PPM (CHLORINE GAS)	1PPM (CHLORINE GAS)	N/A	7681-52-9

SECTION III-PHYSICAL/CHEMICAL CHARACTERISTICS

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BOILING POINT(DEGREES F.): 217

MELTING POINT: N/A

VAPOR DENSITY(AIR=1): 19.2

FREEZING POINT: N/A

SPECIFIC GRAVITY(WATER=1): 1.082

PH: 12.4

VAPOR PRESSURE(MM HG.): 16

EVAPORATION RATE(\*=1): N/A

VOLATILES BY WEIGHT(%): 90

\* BUTYL ACETATE

SOLUBILITY IN WATER: COMPLETE

APPEARANCE/ODOR: PALE YELLOW LIQUID WITH TYPICAL LIQUID BLEACH ODOR.

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT(F)/METHOD USED: N/A

FLAMMABLE LIMITS(LEL/UEL): NON FLAMMABLE SOLUTION

EXTINGUISHING MEDIA: USE WATER IN FLOODING QUANTITIES AS FOG.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS FOR CHLORINE GAS VAPORS. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: BLEACH DECOMPOSES WHEN HEATED TO HIGH TEMPERATURES AND CONTAINERS MAY RUPTURE.

SECTION V-REACTIVITY DATA

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STABILITY: UNSTABLE

CONDITIONS TO AVOID: HEAT

INCOMPATIBLE MATERIALS TO AVOID: ACIDS, AMMONIA, ORGANIC COMPOUNDS, HEAVY METALS AND SALTS THEREOF, AND OXIDIZING OR REDUCING COMPOUNDS.

LIQUID BLEACH - HOUSEHOLD 5 1/4% (CONTINUED)

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: CHLORINE, CHLORINE DIOXIDE, CHLORAMINES. DECOMPOSITION PRODUCTS MAY CAUSE CONTAINERS TO RUPTURE. HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI-HEALTH HAZARD DATA

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ROUTE OF ENTRY: INHALATION-LIKELY SKIN-LIKELY INGESTION-UNLIKELY  
HEALTH HAZARDS(ACUTE AND CHRONIC): ACUTE-DEPENDING ON SOLUTION  
CONCENTRATION, MATERIAL MAY BE CORROSIVE TO SKIN, MUCOUS MEMBRANES  
AND EYES AND VAPORS MAY CAUSE RESPIRATORY IRRITATION. CHRONIC-MAY  
CAUSE DAMAGE OR INJURY TO EYES, SKIN AND RESPIRATORY ORGANS.  
CARCINOGENICITY\*: NTP IARC MONOGRAPHS OSHA REGULATED

ND ND ND  
\*NOT DETERMINED FOR PRODUCT OR HAZARDOUS INGREDIENTS CONTAINED  
THEREIN.

SIGNS AND SYMPTOMS OF EXPOSURE:

INHALATION- INHALATION OF VAPORS MAY CAUSE BRONCHIAL IRRITATION,  
COUGHING, DIFFICULT BREATHING, PULMONARY EDEMA.  
INGESTION- IF SWALLOWED, MAY CAUSE BURNING SENSATION AND CORROSION  
OF MUCOUS MEMBRANES, ESOPHAGEAL OR GASTRIC PERFORATION,  
LARYNGEAL EDEMA, VOMITING, NAUSEA.  
SKIN- SKIN CONTACT MAY RESULT IN BLISTERING AND ECZEMA.  
EYES- ACCIDENTAL EYE CONTACT WITH LIQUID OR VAPORS MAY PRODUCE  
MODERATE TO SEVERE IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE KNOWN

SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

EYE PROTECTION- AVOID SPLASHING INTO EYES. WEAR SPLASH-PROOF,  
CHEMICAL RESISTANT SAFETY GOGGLES.

SKIN PROTECTION- AVOID REPEATED OR PROLONGED SKIN CONTACT. WEAR  
PROTECTIVE CLOTHING INCLUDING RUBBER GLOVES, RUBBER  
BOOTS AND FACE SHIELD.

RESPIRATORY PROTECTION- AVOID INHALATION OF FUMES. STAY UPWIND OF  
SPILL. WEAR NIOSH-APPROVED RESPIRATORY  
PROTECTION.

HANDLING- USE NORMAL PROCEDURES FOR HANDLING CAUSTIC SUBSTANCES.

STORAGE- STORE IN A COOL, DARK PLACE AWAY FROM HEAT AND LIGHT  
AND COMBUSTIBLE MATERIALS. STORE BELOW 90 DEGREES F.

KEEP CONTAINERS WELL CLOSED. PROVIDE ADEQUATE VENTILATION.  
NORMAL CLEAN UP- DILUTE WITH COPIOUS AMOUNTS OF WATER AND THEN MOP  
UP.

WASTE DISPOSAL- FLUSH WITH WATER TO SEWER IN ACCORDANCE WITH FEDERAL,  
STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION VIII-FIRST AID & MEDICAL EMERGENCY PROCEDURES

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EYES: FLUSH EYES THOROUGHLY WITH RUNNING WATER FOR AT LEAST 15  
MINUTES. GET PROMPT MEDICAL ATTENTION.

SKIN: RINSE THOROUGHLY WITH RUNNING WATER. IF IRRITATION PERSISTS,  
CONTACT PHYSICIAN OR LOCAL POISON CONTRL CENTER.

INHALATION: IF EFFECTS OCCUR, REMOVE VICTIM TO FRESH AIR. PROVIDE  
SYMPTOMATIC CARE AND SUPPORT RESPIRATION. GET PROMPT  
MEDICAL ATTENTION.

LIQUID BLEACH - HOUSEHOLD 5 1/4% (CONTINUED)

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INGESTION: IMMEDIATELY GIVE LARGE QUANTITIES OF WATER OR MILK TO  
DILUTE. DO NOT INDUCE VOMITING. GET PROMPT MEDICAL  
ATTENTION.

OTHER: REMOVE ALL CONTAMINATED CLOTHING AND/OR SHOES.  
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SECTION IX-CONTROL MEASURES-OCCUPATIONAL

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RESPIRATORY PROTECTION(SPECIFY TYPE): NIOSH-APPROVED RESPIRATOR FOR  
CHLORINE GAS FUMES.

VENTILATION: MAINTAIN ADEQUATE VENTILATION.  
LOCAL EXHAUST- MAINTAIN ADEQUATE VENTILATION.  
MECHANICAL(GENERAL)- N/A  
SPECIAL- N/A

PROTECTIVE GLOVES: RUBBER

EYE PROTECTION: SPLASH-PROOF, CHEMICAL RESISTANT SAFETY GOGGLES.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: UNIFORMS, COVERALLS OR  
LABCOATS, RUBBER BOOTS.

WORK/HYGIENIC PRACTICES: PROVIDE EYE BATH AND EMERGENCY SHOWER.  
LAUNDRER SOILED WORK CLOTHING BEFORE RE-USE.  
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SECTION X-ENVIRONMENTAL IMPACT

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APPLICABLE REGULATIONS: CPSC 16 CFR 1500

DOT/EPA HAZARD CLASS: N/A

SHIPPING NAME: SEE PRODUCT NAME  
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THE INFORMATION CONTAINED HEREIN IS PROVIDED IN GOOD FAITH AND IS  
BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, THE DIAL  
CORPORATION MAKES NO REPRESENTATION AS TO THE COMPREHENSIVENESS OR  
ACCURACY OF THE INFORMATION. IT IS EXPECTED THAT INDIVIDUALS  
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SET FORTH HEREIN OR TO THE PRODUCT TO WHICH THE INFORMATION REFERS.  
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CHANGE: INTERNAL CODE NUMBER ADDED

END OF MSDS