



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product Name/Trade Name	Germicidal Bleach
	Ref#4000023
Manufacturer:	KIK CUSTOM PRODUCTS
	2921 Corder Street
	Houston, Texas 77054
Contact Number:	Tel: 905-660-0444
Emergency 24 Hr Contact:	1-800-255-3924
Prepared By:	KIK CUSTOM PRODUCTS Laboratory
Date Last Revised:	July 22, 2009
Replaces Date:	October 30, 2007

Section 2. Hazardous Ingredients

Ingredient	Concentration	CAS#	Worker Exposure Limit
Sodium Hypochlorite	2.5-6.0%	7681-52-9	not established
Sodium Hydroxide	0.1-1.0%	1310-73-2	2 mg/m ³ - TLV-C*
* TLV-C = ACGIH Threshold Limit Value - Ceiling None of the ingredients in this product are on the IARC or NTP carcinogen lists.			

Section 3. Hazards Identification

Route of Entry

Skin	Yes	Eye	Yes
Inhalation	Yes	Ingestion	Yes

Effects of Exposure: May cause substantial but temporary eye injury. May irritate skin. When ingested, may cause nausea and vomiting. Inhalation of vapor will irritate nose, throat and lungs.

Effects of acute exposure: Inhalation of mist or vapor may cause breathing difficulty. Its corrosiveness may cause severe irritation to eyes and skin. May cause permanent damage if not treated properly. Ingestion can cause corrosion of mucous membranes, severe esophageal burns and perforation of esophagus or stomach.

Effects of chronic exposure: Not Known.

Under normal consumer use conditions, the likelihood of any adverse health effects is low. The following medical conditions may be aggravated by exposure to high concentration of vapor or mist: heart conditions or chronic respiratory problems such as asthma, bronchitis or obstructive lung disease. Some clinical tests conducted on intact skin with sodium hypochlorite liquid bleach found no sensitization in the test subjects.

Section 4. First Aid Measures

Skin: Remove contaminated clothing. Wash with copious amount of water. If irritation persists, call a doctor.

Eyes: Flush eyes with cool running water holding eyelids apart to ensure thorough rinsing for 15 minutes. Remove contact lenses. See a doctor immediately.

Inhalation: Move to fresh air and restore breathing. If breathing problems develop, call a doctor.

Ingestion: DO NOT INDUCE VOMITING! Drink large amounts of water. Do not give anything by



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mouth to a convulsing or unconscious person. See a doctor immediately.

General Advice: If irritation occurs, see a doctor immediately.

Section 5. Preventative Measures

Protective Equipment

Gloves: Impervious PVC or Neoprene.

Eyes: Safety glasses at the very least. Chemical splash goggles. Face shield also helpful.

Respiratory: Not normally required. Footwear: Protect shoes and feet when using product for floor cleaning.

LEAK AND SPILL PROTECTION:

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

WASTE DISPOSAL: Reclaim or dispose in accordance with local regulations.

STORAGE REQUIREMENTS: Store in a cool, dry and well-ventilated area.

Section 6. Physical Data

State	Liquid	pH	12.6 maximum
Appearance	Clear Pale yellow	Specific Gravity	1.080 minimum
Odour	Typical Bleach	Solubility in water	Complete

Section 7. Fire & Explosion

Not flammable nor explosive

Section 8. Reactivity Data

Chemical Stability: Stable under normal use and storage conditions.

Conditions: Temperature above 40 °C, sunlight and metals,

Incompatibility: YES X NO

What Substances? Acids, ammonia, urea, metals & oxidizers.

Reactivity / Conditions: Reacts with other household products containing such chemicals as acids, rust removers, urea or ammonia to produce hazardous gases such as chlorine and other chlorinated species.

Oxygen is released on contact with metals. Extended contact with metals may cause discoloration or pitting

Section 9. Regulatory Information

WHIMS:

Health: 2

Flammability: 0

Reactivity: 1

DOT : Not Regulated

As the handling and use of products under user's conditions are beyond our control, no warranty, expressed or implied, is made concerning this product. The information contained herein is offered only as a guide to the handling of this specific material and is not intended to be all-inclusive in the manner and conditions of use and handling. The user assumes all risks of use or handling, whether or not in accordance with any directions or suggestions of the manufacturer. Manufacturer shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our product.



Clorox Professional Products Company
1221 Broadway
Oakland, CA 94612
Tel (510) 271-7000

Material Safety Data Sheet

I Product: COMMERCIAL SOLUTIONS™ ULTRA CLOROX® GERMICIDAL BLEACH I

Description: CLEAR, LIGHT YELLOW LIQUID WITH CHLORINE ODOR

Other Designations	Distributor	Emergency Telephone Nos.
EPA Reg No. 67619-8 Sodium Hypochlorite Solution	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Chemtrec (800) 424-9300

II Health Hazard Data	III Hazardous Ingredients									
DANGER: CORROSIVE. May cause severe irritation or damage to eyes and skin. Harmful if Swallowed. Medical conditions such as heart disease or chronic respiratory problems such as asthma, chronic bronchitis or obstructive lung disease may be aggravated by exposure to high concentrations of vapor or mist. Some clinical reports suggest a low potential for sensitization upon exaggerated exposure to sodium hypochlorite, particularly on damaged or irritated skin. Routine clinical tests conducted on intact skin with Clorox Liquid Bleach found no sensitization in the test subjects. Under normal consumer use conditions the likelihood of any adverse health effects are low. FIRST AID: EYE CONTACT: Rinse with plenty of water for at least 15 minutes. Get prompt medical attention. SKIN CONTACT: Remove contaminated clothing. Wash skin thoroughly with soap and water. INGESTION: Drink large amounts of water. DO NOT induce vomiting. Call a physician or poison control center immediately. INHALATION: If breathing problems develop remove to fresh air.	<table><tr><th>Ingredient</th><th>Concentration</th><th>Worker Exposure Limit</th></tr><tr><td>Sodium hypochlorite CAS # 7681-52-9</td><td>6.0-7.35%</td><td>not established</td></tr><tr><td>Sodium hydroxide CAS # 1310-73-2</td><td><0.2%</td><td>2.0 mg/m3 TLV-C *</td></tr></table> *TLV-C = ACGIH Threshold Limit Value- Ceiling Limit None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen list.	Ingredient	Concentration	Worker Exposure Limit	Sodium hypochlorite CAS # 7681-52-9	6.0-7.35%	not established	Sodium hydroxide CAS # 1310-73-2	<0.2%	2.0 mg/m3 TLV-C *
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IV Special Protection and Precautions	V Transportation and Regulatory Data
Hygienic Practices: Wear safety glasses. With repeated or prolonged use, wear nitrile, neoprene, or butyl rubber gloves. Wash after contact with product. Avoid breathing vapors. Engineering Controls: Use general ventilation to minimize exposure to vapor or mist. Work Practices: Avoid eye and skin contact and inhalation of vapor or mist. KEEP OUT OF REACH OF CHILDREN.	U.S. DOT Hazard Class: Not restricted per 49CFR172.101(c)(12)(iv). IMDG: Not restricted per IMDG Code Page 0021 Paragraph 5.3.5. IATA: Not restricted per IATA D.G.R. Special provision A3. EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals regulated under Section 313 and contains chemicals (sodium hypochlorite and sodium hydroxide) which are regulated under Section 304/CERCLA. TSCA Status: All component of this product are on the TSCA Inventory.

VI Spill Procedures/Waste Disposal	VII Reactivity Data
Spill Procedures: Control spill. Containerize liquid and use absorbents on residual liquid; dispose appropriately. Wash area and let dry. 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. Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.	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.

VIII Fire and Explosion Data	IX Physical Data
Not flammable or explosive. In a fire, cool containers to prevent rupture and release of sodium chlorate.	Boiling point.....212°F/100°C (decomposes) Specific Gravity (H2O=1).....1.085 Solubility in Water.....complete pH.....11.4

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DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH

DATE PREPARED 5/01

