

# Material Safety Data Sheet

1. PRODUCT IDENTIFICATION			
<b>Activate 5.25% Institutional Bleach Concentrate</b> 5.25% SODIUM HYPOCHLORITE SOLUTION EPA Reg. No.: 75266-1 CAS No.: 7681-52-9 Chemical Formula: NaOCl		DISTRIBUTED under Item Nos.: 77062, 77012, 77051FS, 77012FS, 23640501, 23640502	
2. HAZARDOUS INGREDIENTS			
Ingredient	CAS No	Percent	Hazardous
Sodium Hypochlorite (as NaOCl)	7681-52-9	5.25%	Yes
Sodium Hydroxide	1310-73-2	0.10%	Yes
Inert Ingredients	N/A	Balance	N/A
3. HEALTH HAZARD INFORMATION			
Emergency Overview <b>WARNING:</b> Harmful if swallowed or inhaled. Causes irritation to eyes and respiratory tract. Causes substantial but temporary eye injury.			
<b>Health Rating:</b> 2 – Moderate <b>Flammability Rating:</b> 0 - None <b>Reactivity Rating:</b> 1 - Slight <b>Special Hazard:</b> Oxidizer, Corrosive <b>Lab Protective Equip:</b> Chemical goggles & face shield; chemical resistant gloves, splash apron and boots. Safety shower& eye wash fountain should be nearby.		<b>Potential Routes of Exposure – CONCENTRATE</b> <b>Inhalation:</b> Fumes from spills can cause severe irritation and chemical burns to the nose, throat, and lungs. Very little hazard from properly contained and stored solution. <b>Ingestion:</b> Causes irritation of membranes of mouth, throat; stomach pain and ulceration. <b>Skin Contact:</b> Severe irritant, reddening of skin; can cause chemical burns to skin. <b>Eye Contact:</b> Severe irritant, corrosive, can severely burn eyes. <b>Chronic Exposure:</b> A constant irritant to the eyes and throat and mucous membranes. Low potential for sensitization after exaggerated exposure to damaged skin. <b>Aggravation of Pre-existing Conditions:</b> No medical conditions are known to be aggravated by exposure. <b>Carcinogenicity:</b> No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen and mutagen.	
4. EMERGENCY & FIRST AID PROCEDURES			
<b>Inhalation:</b> Move person to fresh air; if person is not breathing, call 911, then give artificial respiration, preferably mouth-to-mouth, if possible. Have product label with you, then call a poison control center or doctor for further treatment advice. <b>If Swallowed:</b> Call a physician or poison control center immediately for treatment advice. DO NOT INDUCE VOMITING unless told to do so by poison control center. Have person sip glass of water if able to swallow. Do not give anything by mouth to an unconscious person. <b>Skin Contact:</b> Take off contaminated clothing; rinse skin immediately with plenty of water for 15-20 minutes; call a poison control center or doctor for treatment advice. <b>Eye Contact:</b> Hold eye open and rinse slowly and gently with water for 15-20 minutes; after the first 5 minutes remove any contact lenses, then continue rinsing the eye; call a poison control center or doctor for treatment advice.			
5. FIRE & EXPLOSION DATA			
<b>Flash Point:</b> N/A <b>Fire:</b> Not considered to be a fire hazard. Substance releases oxygen when heated, which may increase the severity of an existing fire. <b>Explosion:</b> This solution is not considered to be an explosion hazard. <b>Fire Extinguishing Media:</b> Flood with water or carbon dioxide (CO2). <b>Special Information:</b> Use NIOSH approved respirator with acid-type canister or use self-contained breathing apparatus. Strong oxidizer. Contact with combustibles may promote combustion. Acid and heat accelerate decomposition. Decomposition products may include chlorine.			
6. SPILL OR LEAK PROCEDURES			
<b>In the event of a transportation emergency, call CHEMTREC 800-424-9300.</b> If material is released or spilled, cleanup personnel must wear protective equipment (See section 8) Contain in diked area. Neutralize with sodium bisulfite or ferrous salt solutions. Place neutralized material in DOT specified approved container (s). Flush area with large amounts of water. Comply with all Federal, State & local reporting requirements.			

## 7. HANDLING AND STORAGE

**DANGER:** This product is corrosive and may cause severe skin irritation or chemical burns to broken skin. Causes eye damage. Do not get in eyes, on skin, or on clothing. Wear goggles and face shield and chemical resistant gloves when handling. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible; do not return until vapors have dissipated. Store in a cool, dry area away from direct sunlight and heat to avoid deterioration. In case of spill, flood area with large quantity of water. Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Store in an upright position!

## 8. SPECIAL PROTECTION INFORMATION

**VENTILATION REQUIREMENTS:** Local exhaust is recommended.

**Respiratory protection:** Use NIOSH or MSHA approved respirator appropriate for this product when permissible exposure limits are exceeded.

**Protective gloves:** Use chemical resistant rubber, plastic, or neoprene gloves.

**Eye protection:** Use chemical goggles and face shield.

**Other:** Use chemical resistant splash apron and boots. Safety shower and eye wash fountain should be located nearby.

## 9. PHYSICAL DATA

**Appearance:** Colorless to yellow-greenish liquid.

**Odor:** Chlorine-like odor.

**Solubility:** 100% in water.

**Density:** 1.07 - 1.14

**pH:** 12.5 – 13.5 s.u. @ 25 degrees C.

**Boiling Point:** 104C (219F)

**Melting Point:** -6C (21F)

**Specific Gravity (water=1):** 1.082 @ 20C by weight

**Vapor Pressure (mm Hg):** Variable water+ products of decomposition

**Evaporation Rate (Water=1):** 1

## 10. REACTIVITY DATA

**Stability:** Solutions are fairly stable. Stability decreases with heat, light, exposure, decrease in pH, and contamination with metals.

**Hazardous Decomposition Products:** Emits toxic fumes of chlorine when heated to decomposition. Sodium oxide at high temperatures.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Violent reaction with ammonia (chloramine gas may evolve); acids, alcohols, amines, chlorinated isocyanurates, combustibles, cyanides, detergents, ethers, hydrocarbons, oxidizable materials, reducing agents. Corrosive to most metals.

**Conditions to Avoid:** Light, heat, incompatibles.

## 11. REGULATORY STATUS

USEPA Pesticide Registration No.75266-1. This product is listed in the Toxic Substances Control Act Inventory of Chemical Substances. USDA Authorized Uses: B1, D2, 3D, Q4. SARA Title III Extremely Hazardous Substance: NO; Sara Title III Toxic Chemical: NO

## 12. WASTE DISPOSAL

Contact Federal, State, and local environmental regulators for guidance regarding proper disposal.

## 13. TRANSPORT INFORMATION

**DOT Shipping Name:** Consumer Commodity /ORM-D

**DOT Class:** Consumer Commodity (Limited Qty Exception Class 8)

**DOT Label:** ORM-D

**DOT ID No.:** UN1791

**Air Shipments:** Packing Group III



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