

**Material Safety Data Sheet  
SAF – GARD**

<b>WESMAR CO. INC.</b> 1451 NW 46 ST SEATTLE, WA. 98107 Emergency Phone Number: (206) 783-5344	DATE PREPARED: ..... JAN. 10, 2006 REVISED DATE: ..... JULY 25, 2007 CHEMTREC: ..... 800-424-9300
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**SECTION I - IDENTIFICATION**

**PRODUCT NAME:**..... SODIUM HYPOCHLORITE 12.5%  
**FORMULA:** ..... NaOCl  
**CAS NUMBER:** ..... CAS NUMBERS: SODIUM HYPOCHLORITE 7681-52-9; WATER 7732-18-5  
**DOT SHIPPING NAME:**..... HYPOCHLORITE SOLUTION  
**DOT HAZARD CLASS:** ..... 8  
**UN NUMBER:** ..... UN-1791  
**DOT LABEL:**..... Corrosive  
**DOT PLACARD:**..... Corrosive  
**PACKING GROUP:** ..... III  
**REPROTABLE QUANTITY:**..... Sodium Hypochlorite: 100 pounds (45.4 kilograms)  
**HMS DESIGNATION:**..... Health: 3 Fire: 0 Reactivity: 1

**SECTION II - HAZARDOUS INGREDIENTS**

HAZARDOUS INGREDIENT	% BY WEIGHT	CAS NO.	OSHA/PEL	ACGIH/TLV
SODIUM HYPOCHLORITE	12.0 – 13.5	7681-52-9	N/A	N/A
SODIUM HYDROXIDE	0.1 – 2.0	1310-73-2	2mg/M <sup>3</sup> (Ceil)	2 mg/M <sup>3</sup> (Ceil)

**SECTION III - PHYSICAL DATA**

**APPEARANCE & ODOR:** ..... Yellow –green liquid with chlorine odor  
**BOILING POINT:**..... 219° F (104°C)  
**FREEZING POINT:** ..... -11°F (-24°C)  
**VAPOR PRESSURE:**..... Variable water plus products of decomposition.  
**VAPOR DENSITY (AIR=1):**..... Not available  
**SPECIFIC GRAVITY:** ..... (water =1): 1.196 @ 20°C  
**pH:** ..... 12.5 - 13.5 s.u. @ 25°C  
**VISCOSITY <Cs>:** ..... 2.15 @ 23°C for 12.5% NaOCl by wt.  
**% VOLATILE BY VOLUME:** ... Variable water plus products of decomposition.  
**SOLUBILITY IN WATER:** ..... Complete  
**VAPOR PRESSURE:**..... Variable water plus products of decomposition.  
**VAPOR DENSITY:**..... Not available

**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASHPOINT:**..... (Test method) Not applicable

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### AUTO IGNITION

**TEMPERATURE:**..... Not applicable

**FLAMMABLE LIMITS IN AIR:** (Volume %) Not applicable

**EXTINGUISHING MEDIA:**..... Flood with water or carbon dioxide (CO<sub>2</sub>)

### SPECIAL FIRE FIGHTING

**PROCEDURES:** ..... Use National Institute of Occupational Safety & Health (NIOSH) approved respirator with acid type canister or use self-contained breathing apparatus. Unusual fire and explosion hazards: Material is a strong oxidizer. Contact with combustibles may initiate or promote combustion. Acid and heat accelerate decomposition. Decomposition products may include chlorine.

## SECTION V – HEALTH HAZARD DATA

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

..... No medical conditions aggravated by exposure.

### ROUTES OF EXPOSURE

**INHALATION:**..... Fumes from spills can cause severe irritation and chemical burns to the nose, throat, and lungs. Very little hazard from properly stored solution.

**SKIN CONTACT:**..... Severe irritant. Reddening of skin, can cause chemical burns to skin.

**SKIN ABSORPTION:**..... Same as skin contact.

**EYE CONTACT:**..... Extreme irritant, corrosive.

**INGESTION:** ..... Causes irritation of membranes of the mouth, throat, and stomach pain and possible ulceration. LD<sub>50</sub> (oral, rat) is approximately 5 g/kg body weight.

### EFFECTS OF OVEREXPOSURE:

**ACUTE OVEREXPOSURE:** (see Routes of Exposure above)

**SWALLOWING:** See “ingestion” under routes of exposure.

**SKIN CONTACT:** Severe irritant, reddening of skin, skin damage, chemical burns.

**INHALATION:** Fumes from s pills are very irritating to mucous membranes.

**EYE CONTACT:** Extreme irritant, corrosive.

### CHRONIC OVEREXPOSURE:

None known (see Routes of Exposure above)

**EYE:** Can cause damage.

**SKIN:** Can cause damage, chemical burns.

### EMERGENCY AND FIRST AID PROCEDURES

#### IF INHALED:

> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

#### IF ON SKIN OR CLOTHING:

> 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.

#### IF IN EYES:

> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

#### IF SWALLOWED:

> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or a doctor. Do not give anything by mouth to an unconscious person.

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Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

### SECTION VI - REACTIVITY DATA

#### CONDITIONS CONTRIBUTING TO INSTABILITY:

..... Solutions are fairly stable in concentrations below 10%. Stability decreases with concentration, heat, light, exposure, decrease in pH, and contamination with heavy metals, such as nickel, cobalt, copper, and iron.

#### INCOMPATIBILITY:

..... Acids, alcohol's, amines, ammonia, chlorinated isocyanurates, combustibles, cyanides, detergents, ethers, hydrocarbons, oxidizable materials, reducing agents. Corrosive to most metals.

#### DECOMPOSITIONS PRODUCTS:

..... Hydrochlorous acid (HOCl), chlorine, hydrochloric acid, Composition depends upon temperature and decreases in pH. Additional decomposition products, which depend upon pH, temperature and time, are sodium chloride, sodium chlorate and oxygen.

#### CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:

..... Will not occur.

### SECTION VII SPILL OR LEAK PROCEDURES

#### IN THE EVENT OF A TRANSPORTATION EMERGENCY, CALL CHEMTREC: (800) 424-9300 STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Clean-up personnel must wear proper protective equipment (See section VIII). Contain in diked area. Neutralize with sodium bisulfite or ferrous salt solutions. Place neutralized material in DOT specification approved container(s). Flush area with large amounts of water. Comply with all Federal, State and Local reporting requirements.

#### WASTE DISPOSAL:

Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water.

Disposal for domestic use: Do not reuse container. Rinse thoroughly before discarding in trash. Disposal for all other uses: Triple rinse (or equivalent). Then offer for recycling or reconditions, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment. Store in an upright position.

### SECTION VIII SPECIAL PROTECTION INFORMATION

#### VENTILATION REQUIREMENTS:

Local exhaust is recommended.

#### SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY: Use National Institute of Occupational Safety and Health (NIOSH) or Mine Safety and Health Administration (MSHA) approved respirator appropriate for this product when permissible exposure limits are exceeded.

EYES: Use chemical goggles and face shield.

GLOVES: Use chemical resistant rubber, plastic, or neoprene gloves.

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

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### SECTION IX – SPECIAL PRECAUTIONS

#### **PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING:**

**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 this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until odors have dissipated.

#### **PROPER STORAGE AND DISPOSAL REQUIREMENTS:**

Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spills, flood areas with large quantities of water.

Disposal for domestic use: Do not reuse container. Rinse thoroughly before discarding in trash. Disposal for all other uses: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment. Store in an upright position.

#### **OTHER PRECAUTIONS:**

**STRONG OXIDIZING AGENT:** Mix only with water according to label directions. Mixing this product with gross filth such as feces, urine, etc., or with ammonia, acids, detergents or other chemicals may release hazardous gases irritating to eyes, lungs and mucous membranes.

### SECTION X – REGULATORY STATUS INFORMATION

This product is listed in the Toxic Substances Control Act (TSCA) Inventory Of Chemical Substances.

Manufactured in Accordance with AWWA Standard for Hypochlorites, AWWA B300-99.

SARA Title III Extremely Hazardous Substances: NO

SARA Title III Toxic Chemical: NO

SARA 311/312: Acute Hazard, Chronic Hazard, Fire Hazard, Reactivity Hazard.

EPA CLEAN AIR ACT: This product does not contain nor is it manufactured with Ozone depleting substances.

Super fund Reportable Discharge = 100 pounds (100% NaOCl)

CERCLA Hazardous Material: Yes

California Proposition 65: No

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