



**MATERIAL
SAFETY DATA
SHEET**

VERIGUARD 501

DATE: 08/22/2006

CAS NO: 7681-52-9
SUPERSEDES: 5/05/2005

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: VERIGUARD 501
SYNONYMS: SODIUM HYPOCHLORITE SOLUTION 12.5%, BLEACH, LIQUID BLEACH, SODIUM BLEACH
CHEMICAL FAMILY: INORGANIC
VERICHEM, 3499 Grand Avenue, Pittsburgh, PA 15225 (412-331-7299, 8:30 am to 5:00 pm)

EMERGENCY PHONE: For any emergency involving spill, leak, fire, exposure, or accident call CHEMTREC: 1-800-424-9300. Outside the USA and Canada call: 703-527-3887.

2. COMPOSITION/INFORMATION ON INGREDIENTS

REGULATED COMPONENTS

COMPONENT	CAS NUMBER	PERCENT	WORKER EXPOSURE	REFERENCE
Sodium Hypochlorite	7681-52-9	12.5	Non established	
Sodium Hydroxide	1310-73-2	0.3-4%	2 mg/m3 (ceiling)	ACGIH

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

HAZARDS IDENTIFICATION: Corrosive to eyes and skin. Contact with acid liberates toxic chlorine gas.

APPEARANCE AND ODOR: Yellow, Heavy Liquid with Chlorine Odor. **EFFECTS OF OVEREXPOSURE: EYE**

EXPOSURE: This product will cause severe irritation, possible permanent damage and blindness. **SKIN EXPOSURE:**

This product would be considered a skin irritant and may cause burns. **INHALATION:** This product is an irritant and may cause burns to the respiratory tract. **INGESTION:** The product can cause corrosive spasms, vomiting, tissue destruction and possible death.

4. FIRST AID MEASURES (IN CASE OF CONTACT)

IF IN EYES: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Get medical attention. Remove contact lenses, if present, after the first 5 minute, then continue rinsing eye. Call a poison control center or doctor for 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 SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. **DO NOT** induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **IF INHALED:** Move person to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for treatment advice.

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

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: N/A
FLAMMABLE LIMITS (% BY VOLUME): N/A
AUTOIGNITION TEMPERATURE: N/A
DECOMPOSITION TEMPERATURE: N/A

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTION

Use extinguishing media appropriate for the surrounding fire. Use water fog, foam, dry chemical, carbon dioxide. Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential. If water is sprayed on product, splattering may occur.

DECOMPOSITION PRODUCTS: Chlorine, sodium oxide, oxygen

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Evacuate area. Equip personnel with proper protective gear. Contain spill, if possible. Reclaim material. Otherwise, place all material, absorbent and/or affected soil in proper containers for treatment or disposal.

Do not discharge unless in accordance with Federal, State, and Local Regulations.

7. HANDLING AND STORAGE

STORAGE REQUIREMENTS: Store in a cool dry storage area.

HANDLING REQUIREMENTS: It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Improper handling of this product can be injurious to workers. Do not get in eyes, on skin or clothing. Avoid breathing mist. Use with adequate ventilation. Wash thoroughly after handling. Keep container closed when not in use.

8. PERSONAL PROTECTION

EYE PROTECTION REQUIREMENTS: Chemical splash goggles and face shield.

SKIN PROTECTION REQUIREMENTS: Chemical resistant gloves and protective clothing.- Butyl rubber, natural rubber, neoprene, nitrile rubber, vitar, polyethylene.

VENTILATION REQUIREMENTS: Not required

RESPIRATOR REQUIREMENTS: Use self-contained breathing apparatus or NIOSH approved dust/mist filter respirator where exposure to mists exceeds permissible exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Yellow heavy liquid with chlorine odor
BOILING POINT:	Slightly greater than 212° F
MELTING POINT:	N/A
VAPOR PRESSURE:	12 mmhg (21° C)
SPECIFIC GRAVITY 25° C /25° C:	1.23
VAPOR DENSITY: (air = 1):	Not known
PERCENT VOLATILE (BY WEIGHT):	N/A
pH:	> 13
SATURATION IN AIR (PERCENT BY VOLUME):	N/A
EVAPORATION RATE:	N/A
SOLUBILITY IN WATER:	Miscible in all proportions

10. STABILITY AND REACTIVITY

STABILITY / THERMAL (CONDITIONS TO AVOID): KEEP AWAY FROM HEAT.

INCOMPATIBLE MATERIALS: Strong acids

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

ORAL TOXICITY:	LD ₅₀ oral – rat	8910 mg/kg
	LD ₅₀ oral – mouse	5800 mg/kg

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY:	Rainbow trout (48-hour LC ₅₀):	0.07 mg/l
	Fathead minnow (96-hour LC ₅₀):	5.9 mg/l
AVIAN TOXICITY:	N/A	

13. DISPOSAL CONSIDERATION

Discarded product, as sold, would not be considered a RCRA Hazardous Waste.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

	DOT Shipping Information	IMO Shipping Information	ICAO/IATA	TRANSPORT CANADA
Shipping Name	Hypochlorite Solution	Unknown	Hypochlorite Solution	Hypochlorite Solution
Hazard Class	8	Unknown	8	8
Packing Group	III	Unknown	III	III
Subsidiary Class	None	Unknown	None	None
UN/ID Number	1791	Unknown	1791	1791
Transport Label Required	Corrosive	Unknown	Corrosive	Corrosive
Packing Instructions	819	Unknown	819	819
Passenger	821		821	821
Cargo				
Max. Net Quantity	5L	Unknown	5L	5L
Passenger	60L		60L	60L
Cargo				
DOT Hazardous Substances	Hypochlorite Solution	Unknown	Hypochlorite Solution	Hypochlorite Solution
IMDG Page	Unknown	Unknown	Unknown	Unknown

15. REGULATORY INFORMATION

INVENTORY INFORMATION

US TSCA: Yes

CANADA DSL: Yes

EEC EINECS: Yes

OTHER ENVIRONMENTAL INFORMATION

The following components are defined as toxic chemicals subject to reporting requirements of Section 313 of Title III and of 40 CFR (Part 372) or subject to other EPA regulations.

COMPONENT: Sodium Hypochlorite

CAS. NUMBER: 7681-52-9

PERCENT: 12.5%

RQ (Pounds): 100 lbs (45.4 kg)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA:

ACUTE: Yes

CHRONIC: No

FIRE: No

REACTIVE: Yes

PRESSURE: No

16. OTHER INFORMATION

NFPA HAZARD RATING (NATIONAL FIRE PROTECTION ASSOCIATION)

HEALTH: 3 FIRE: 0 REACTIVITY: 2

Hazard rating scale: 0=minimal 1=slight 2=moderate 3= serious 4=severe

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