

MATERIAL SAFETY DATA SHEET

OSHA - Meets 29 CFR 1910.1200 Standards

HMIS HAZARD RATINGS



HEALTH	2	* = Chronic Health Hazard	2 = MODERATE
FLAMMABILITY	0	0 = INSIGNIFICANT	3 = HIGH
PHYSICAL HAZARD	2	1 = SLIGHT	4 = EXTREME

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:	Hypochlorite solution (< 15%)		
HAZARD CLASS / PKG GRP:	8 / III	REF:	49 CFR 173.154, .203, .241
IDENTIFICATION NUMBER:	UN 1791	LABEL:	CORROSIVE

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)

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Z - 925

MANUFACTURER'S NAME

Zagers Brand, Inc

EMERGENCY TELEPHONE NUMBER

ChemTel Inc. 1- (800) 255-3924 Intl. + 01 (813) 248-0585

ADDRESS (NUMBER, STREET, P.O. BOX)

4320 Gandy Blvd

TELEPHONE NUMBER FOR INFORMATION

(800) 999-6059

(CITY, STATE AND ZIP CODE)

Tampa, FL 33611

DATE PREPARED: November 20, 2007

SUPERSEDES: New

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS

(SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))

CAS #

%
(OPTIONAL)

OSHA PEL

PPM

MG/M3

ACGIH TWA

PPM

MG/M3

SARA

TITLE III

RQ

LBS

Sodium hypochlorite (a)

7681-52-9

8.5 - 10.0

1

100

Sodium hydroxide (a,b)

1310-73-2

1 - 5

2 C

2 C

1000

(a) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture = 1,000 lbs) or greater amounts, according to 40 CFR 302.

(b) A "C" in the OSHA PEL or ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.

SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE

INHALATION: Corrosive and irritating to upper respiratory tract and mucous membranes. May cause severe irritation and sneezing. Prolonged or repeated overexposure by inhalation may cause pneumonia, lung damage, damage to respiratory system, even death.

EMERGENCY AND FIRST AID PROCEDURES

Remove affected person to fresh air; if not breathing give artificial respiration; if victim is conscious and alert, wash mouth and nasal passages with water repeatedly; if breathing is difficult give oxygen; seek medical attention.

SKIN: Corrosive; chemical burns may result from contact. Repeated or prolonged skin contact may cause skin damage.

Wash contacted area with plenty of water while removing contaminated clothing and shoes; DO NOT attempt to neutralize with chemical agents; seek medical attention.

EYES: CORROSIVE; Contact with eyes is painful and irritating and will cause chemical burns, eye damage, blindness.

Check for and remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.

INGESTION: Corrosive and irritating to digestive tract; may cause severe irritation, tissue ulceration, gastrointestinal damage, circulatory collapse, convulsions, coma, even death.

Rinse mouth with water; drink large quantities of water; DO NOT induce vomiting; never give anything by mouth to an unconscious person; if vomiting occurs spontaneously, keep head below hips to prevent aspirating vomitus into lungs; seek medical attention immediately.

CARCINOGENICITY

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986 - there are no reportable chemicals present known to the state to cause cancer or reproductive toxicity.

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

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SECTION 4 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED) Non-flammable	NFPA RATING None	FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable
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EXTINGUISHING MEDIA
Water, water fog

SPECIAL FIRE FIGHTING PROCEDURES
Prevent human exposure to fire, fumes, smoke, and products of combustion. Evacuate non essential personnel. Firefighters should wear full face, self contained breathing apparatus and impervious protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Product does not burn, but can provide oxygen which can intensify a fire. Toxic fumes may be released. Product is an oxidizer. It may react vigorously with organics or other materials resulting in an explosion and fire.

SECTION 5 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - CORROSIVE. Product may be toxic to fish or aquatic life. Evacuate non essential personnel, eliminate ignition sources, and wear protective equipment. (See Section 3). Shut off source of leak only if safe to do so. Contain spill. Recover free product. To clean up residue, add reducing agents such as bisulfites or ferrous salt solutions. Some heat will be produced. Maintain pH on alkaline side (> 7.5) and dilute with large quantities of water. For spills in excess of allowable limits refer to CERCLA 40 CFR 302 for detailed instructions.

SECTION 6 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; Store in a cool dry place. Store out of direct sunlight and away from heat. Separate from oxidizing materials, metallic powders and other easily oxidized organic materials and reducing agents. Product is an oxidizer and may react vigorously with organic or other materials resulting in an explosion and fire. CAUTION - material is corrosive. Keep this and other chemicals out of reach of children.

SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): If exposure limits are exceeded, or if exposure may occur, use a NIOSH/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSH publications concerning chemical compliance with OSHA requirements in 29 CFR 1910.134 or European Standard EN 149 for complete regulations.. For emergencies, a NIOSH/MSHA approved positive pressure breathing apparatus should be readily available.

VENTILATION LOCAL EXHAUST: Required MECHANICAL (GENERAL): Yes	SPECIAL: To maintain minimum TWA and STEL levels. OTHER: Engineering and work controls as required.
PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.	EYE PROTECTION: Chemical goggles with face shield
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment worn to prevent skin contact, safety eyewash station nearby.	
WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.	

SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT 212° F	SPECIFIC GRAVITY (WATER = 1) 1.200
VAPOR PRESSURE (MM Hg) 17 mm Hg @ 20° C	pH 12.8
VAPOR DENSITY (AIR = 1) > 1	EVAPORATION RATE (WATER = 1) < 1
SOLUBILITY IN WATER Complete	% VOLATILE (BY WEIGHT) 89.5%
APPEARANCE AND ODOR Yellow liquid, chlorine odor	

SECTION 9 - STABILITY AND REACTIVITY

STABILITY UNSTABLE: STABLE: X	CONDITIONS TO AVOID: Amphoteric metals, inorganic acids, organic acids, organic bases, hydrocarbons, organic mixtures.
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INCOMPATIBILITY (MATERIALS TO AVOID): Amphoteric metals, aluminum, copper, zinc, and brass; strong reducing agents, hydrogen, hydrazine, sulfides, sulfites, and nitrites.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, chlorine, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X	CONDITIONS TO AVOID: None
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SECTION 10 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated in a permitted facility capable of handling chlorine-containing compounds. Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for corrosive materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.