

MATERIAL SAFETY DATA SHEET

OSHA - Meets 29 CFR 1910.1200 Standards

HMIS HAZARD RATINGS



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

TRANSPORTATION INFORMATION

| | | | |
|-------------------------|---------------------------|--------|----------------------------|
| PROPER SHIPPING NAME: | Sodium hydroxide solution | | |
| HAZARD CLASS / PKG GRP: | 8 / II | REF: | 49 CFR 173.154, .202, .242 |
| IDENTIFICATION NUMBER: | UN 1824 | LABEL: | CORROSIVE |

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)

Z - 915

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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 hydroxide (a,b)

1310-73-2

15 - 40

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 = 3,000 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

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Corrosive, may cause damage to upper respiratory tract, mucous membranes and lung tissue.

Remove affected person to fresh air; wash mouth and nasal passages with water repeatedly; seek medical attention.

SKIN: Corrosive; chemical burns may result from contact; destructive to tissue.

Wash contacted area with soap and water; DO NOT attempt to neutralize with chemical agents; seek medical attention.

EYES: CORROSIVE; Vapors, liquid and mists are extremely corrosive to the eyes. Brief contact of the vapors will be severely irritating. Brief contact of the liquid or mists will severely damage the eyes; prolonged contact may cause permanent eye injury, may be followed by 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; may cause severe burns and tissue perforation to digestive tract and mucous membranes; may cause gastric distress, stomach pains and vomiting.

Drink large quantities of water or milk; give diluted vinegar or lemon juice to conscious person; DO NOT induce vomiting; seek medical attention immediately.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

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.

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

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Date: November 20, 2007

SECTION 4 - FIRE FIGHTING MEASURES

| | | |
|--|---------------------|---|
| FLASH POINT (METHOD USED) Non-flammable | NFPA RATING None | FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable |
|--|---------------------|---|

EXTINGUISHING MEDIA
Carbon dioxide, water, water fog, dry chemical, chemical foam.

SPECIAL FIRE FIGHTING PROCEDURES
Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released. CAUTION - material is corrosive.

UNUSUAL FIRE AND EXPLOSION HAZARDS
None

SECTION 5 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - CORROSIVE. Wash small spills to sanitary sewer. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.

SECTION 6 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Separate from oxidizing materials, metallic powders and other easily oxidized organic materials and reducing agents. CAUTION - material is corrosive. Keep this and other chemicals out of reach of children.

SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

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| VENTILATION LOCAL EXHAUST: Required MECHANICAL (GENERAL): Yes | SPECIAL: To maintain minimum TWA and STEL levels. OTHER: Engineering and work controls as required. |
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PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs. EYE PROTECTION: Chemical safety goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be 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

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| BOILING POINT 212° F | SPECIFIC GRAVITY (WATER = 1) 1.300 |
| VAPOR PRESSURE (MM Hg) 17 mm Hg @ 20 ° C | pH 13.5 |
| VAPOR DENSITY (AIR = 1) > 1 | EVAPORATION RATE (WATER = 1) < 1 |
| SOLUBILITY IN WATER Complete | % VOLATILE (BY WEIGHT) 74% |
| APPEARANCE AND ODOR Colorless liquid, characteristic odor | |

SECTION 9 - STABILITY AND REACTIVITY

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| STABILITY UNSTABLE: STABLE: X | CONDITIONS TO AVOID: Extreme temperatures. |
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INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids, strong alkalis.

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

| | |
|---|---------------------------|
| HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X | CONDITIONS TO AVOID: None |
|---|---------------------------|

SECTION 10 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: 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.