uehne Chemica

MATERIAL SAFETY DATA SHEET

MSDS NUMBER : M7745

: 01-19-90 MSDS DATE

PRODUCT NAME : SODIUM HYPOCHLORITE

24 HOUR EMERGENCY PHONE: (201) 589-0700

AMREX CHEMICAL CO., INC. 117 E. Frederick St. Binghamton, NY 13902

P. O. Box 642

I. PRODUCT IDENTIFICATION

HMIS HAZARD RATINGS

FIRE HAZARD 0 REACTIVITY 2 HEALTH HAZARD 3 Based on the National Paint & Coatings Association HMIS rating system.

SARA/TITLE III HAZARD CATEGORIES (See Section X)

Immediate (ACUTE) Health: YES Delayed (Chronic) Health: NO Reactive Hazard: Sudden Release of Pressure: NO

Fire Hazard: YES

Kuenhne Chemical Co. Inc. MANUFACTURER'S:

Telephone 86 Hackensack Avenue

NAME AND ADDRESS South Kearny, New Jersey 07032 (201) 589-0700

CAS NUMBER: 007681-52-9 · CHEMICAL NAME : Hypochlorous Acid.

Sodium Salt

SYNONYM\$/COMMON NAMES: Chlorine Bleach:

Soda Bleach

CHEMICAL FORMULA: NAOCI

DOT PROPER SHIPPING NAME: Hypochlorite Solution

DOT HAZARD CLASS: Corrosive Material

DOT I.D. NUMBER: UN1791

DOT HAZARDOUS SUBSTANCE: Sodium Hypochionate RO 100#

II. HEALTH HAZARD INFORMATION

EMERGENCY AND FIRST AID PROCEDURES

EYES:

OBJECT IS TO FLUSH MATERIAL OUT IMMEDIATELY AND THEN SEEK MEDICAL ATTENTION. IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within one (1) minute is essential to achieve maximum effectiveness. SEEK MEDICAL ATTENTION IMMEDIATELY.

SEEK MEDICAL ATTENTION IMMEDIATELY. Flush thoroughly with cool water under shower while removing contaminated clothing and shoes. CONTINUE TO FLUSH UNTIL MEDICAL ATTENTION ARRIVES. Discard non-rubber shoes. Wash clothing before reuse.

M7745

PRODUCT NAME: SODIUM HYPOCHLORITE

II. HEALTH HAZARD INFORMATION (Continued)

INHALATION:

Remove to fresh air. If breathing is difficult have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING, Give large quantities of milk or gelatin solution, if these are not available, give large quantities of water. If vomiting occurs spontaneously, keep airway clear and give more milk, gelatin solution or water. GET MEDICAL ATTENTION IMMEDIATELY. Avoid vomiting, lavage or acidic antidotes.

NOTE TO PHYSICIAN:

Sodium hypochlorite is an alkaline corrosive. For exposure by ingestion do not use emesis, lavage or acidic antidotes. Dilute immediately by giving milk, melted ice cream, beaten egg white starch paste or antacids such as milk of magnesia, aluminum hydroxide gel, or magnesium trisilicate gel. Avoid sodium bicarbonate because of carbon dioxide release. Sodium thiosulfate solution may prove beneficial by reducing unreacted material.

ROUTES OF EXPOSURE

INHALATION:

Inhalation of hypochlorous acid fumes may cause severe respiratory tract irritation and pulmonary edema.

SKIN:

Skin contact may cause severe irritation and burns.

EYE CONTACT:

Eye contact may cause severe irritation, burns, and/or corrosion.

INGESTION:

Ingestion may cause pain and inflammation of the mouth and digestive system, burns and perforation of the esophagus or stomach, vomiting, circulatory collapse, confusion, delir, ium and coma.

EFFECTS OF OVEREXPOSURE

ACUTE:

Corrosive and strongly irritating to the eyes, skin, and respiratory tract. Inhalation of fumes may cause pulmonary edema. Ingestion may cause burns to the mouth and digestive tract and abdominal distress.

CHRONIC:

No Data.

TOXICOLOGY DATA:

The toxicity and corrosivity of Sodium hypochlorite, is a function of concentration. Industrial grades of higher concentrations than household bleach are more toxic and corrosive.

Pentahydrate: 45% Concentration:

Acute Oral Toxicity: LD50 (Rat)
Acute Dermal Toxicity: LD50 (Rabbit)

8910 mg/kg 10,000 mg/kg

Primary Skin Irritation: Severely Irritating. Primary Eye Irritation: Severely Irritating.

M7745

PRODUCT NAME : SODIUM HYPOCHLORITE

III. IMPORTANT COMPONENTS

CAS NUMBER / NAME

1310732 Sodium hydroxide (Na(OH))

EXPOSURE LIMITS

PEL=2 mg/m3, Ceiling TLV=2 mg/m3, Ceiling

0.2

COMMON NAMES:

CAUSTIC SODA

Listed On(List Legend Below):

7681529 Hypochlorous acid, sodium salt

EXPOSURE LIMITS

PEL=Not Established TLV=Not Established

PERCENTAGE

PERCENTAGE

WT.

WT. % 10.0 - 16.5

COMMON NAMES:

SODIUM HYPOCHLORITE

Listed On(List Legend Below):

13 16 18

7732185 Water

EXPOSURE LIMITS

PEL=Not Established TLV=Not Established PERCENTAGE

Wt.3

81.6 - 70.0

COMMON NAMES:

Listed On(List Legend Below):

See Section II

All components of this product that are required to be on the TSCA Inventory are listed on the inventory.

Not listed as carcinogen - IARC, NTP, OSHA

LIST LEGEND

13 PA ENVIROMENTAL HAZ SUBSTANCE

18 NY HAZARDOUS SUBSTANCES 21 NJ SPECIAL HEALTH HAZ SUB 16 NJ WORKPLACE HAZ SUBSTANCE LST 19 PA REQUIREMENT- 3% OR GREATER

IV. FIRE AND EXPLOSION DATA

FLASH POINT: NA

AUTOIGNITION TEMPERATURE: 'NA

FLAMMABLE LIMITS IN AIR. % BY VOLUME- UPPER:

NA

LOWER:

EXTINGUISHING MEDIA:

Use water spray, fog. foam, dry chemical, or carbon dioxide or agents suitable for materials in surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:

self-contained breathing apparatus and full protective equipment. Acid contamination will produce very irritating fumes similar to chloring.

UNUSUAL FIRE AND EXPLOSION HAZARD:

Sod tum Hypochlorite solutions decompose when Decomposition products may cause explode. Vigorous reaction possible cause containers to rupture or with organic materials or oxidizing agents and may result in fire.

M7745

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V. SPECIAL PROTECTION

VENTILATION REQUIREMENTS:

Provide good general room ventilation plus local exhaust at points of emission.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY:

NIOSH/MSHA approved respirator, following manufacturer's recommendations, should be used as a precautionary measure where airborne contaminants may occur.

EYE:

Wear chemical safety goggles plus full face shield to protect against splashing when appropriate.

GLOVES:

Wear impervious gloves such as rubber, neoprene or vinyl.

OTHER CLOTHING AND EQUIPMENT:

Wear impervious protective clothing including rubber safety shoes. Eye wash facility and emergency should should be in close proximity.

VI. PHYSICAL DATA

BOILING POINT @ 760 mm Hg: Decomposes above 110°C (230°F)

FREEZING POINT: ND

VAPOR PRESSURE: NA

SPECIFIC GRAVITY (H20=1). 1.15 - 1.27 depending on concentration.

SOLUBILITY IN H20 % BY WT: 100

VAPOR DENSITY (Air=1): NA

APPEARANCE AND ODOR: Colorless to light yellow-green liquid with

chlorine like odor.

pH: 12 @ 100 GM/L

VII. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY:

Strong Oxidizer. Stability decreases with concentration, heat. light, decrease in pH and contamination by metals.

INCOMPATIBILITY:

Avoid contamination with heavy metals, reducing agents, organics, ether, ammonia, and acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Acid fumes.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:

Material is not known to polymerize.

M7745

PRODUCT NAME: SODIUM HYPOCHLORITE

VIII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS:

Do not store adjacent to chemicals that may react if spillage occurs. Comply with DOT regulations when shipped. If closed containers become heated, vent to release decomposition products (mainly oxygen under normal decomposition). Do not mix or hydrocarbons, acids, alcohols with contaminate ammonia, ethers.

DO NOT REUSE CONTAINERS: Product residues may recontainers. All labeled precautions MUST be observed. of container in a manner meeting government regulations. remain Dispose

PRODUCT DISPOSAL: Product should be completely removed from ontainers. Material that cannot be used or chemically containers. reprocessed should be disposed of in a manner meeting government regulations, container.

IX. ENVIRONMENTAL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Do not allow spilled material to enter sewers or streams. Flush with water to dilute as much as possible and pump into polyethylene containers for disposal. Avoid heat and contamination with acid materials. Do not use combustible materials such as sawdust to absorb hypochlorite. Aquatic toxicity not established, but bleach, if not diluted, may seriously affect aquatic life. .

WASTE DISPOSAL METHOD:

Reduce with agents such as bisulfites or ferrous salt solutions. Some heat will be produced. Keep on alkaline side and dilute with copious amounts of water. Main end-product is salt water. Comply with all applicable governmental regulations.

X. ADDITIONAL INFORMATION

Sec 311 of The Clean Water Act lists product as a hazardous substance which, if discharged to water, may require immediate response to mitigate danger to public health and welfare. Spills of 100 lbs or more must be reported to the National Response Center 1-800-424-8802.

Shipment regulated by US DOT. Material assaying 14.7% (more than 7% available chlorine) is classified corrosive and requires a corrosive label and is assigned UN # 1791 as an international identification number (49 CFR Sec 172.101).

Material assaying less than 14.7% is classified ORM-B with the identifying number NA 1791.

Material is contained on a composite list as required under 101(14) of CERCLA.

Sodium Hypochlorite is regulated by the EPA under the Federal Insecticide. Fungicide and Rodenticide Act (FIFRA), if used as a a pesticide.

MSDS NUMBER: PRODUCT NAME:

M7745

SODIUM HYPOCHLORITE

X. ADDITIONAL INFORMATION (Continued)

OSHA Standard 29CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Material Safety Data Sheet available to your employees.

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.

M7745

SODIUM HYPOCHLORITE PRODUCT NAME:

WARNING LABEL INFORMATION

SODIUM HYPOCHLORITE

ACTIVE INGREDIENT: 12.5% SODIUM HYPOCHLORITE...... 87.5% INERT INGREDIENTS: . . .

POISON -DANGER

STATEMENT OF PRACTICAL TREATMENT (FIRST AID)

Flush with water for at least 15 IF CONTACT WITH EYES OCCURS. minutes. Get prompt medical attention.

Wash with plenty of IF CONTACT WITH SKIN OCCURS.

solution, if these are not available, drink large quantities of water. DO NOT give vinegar or other acids. DO NOT induce vomiting. Get prompt medical attention.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses or goggles and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge into lakes, streams, ponds or public waterways unless in accordance with a NPDES permit. For guidance, contact the regional office of the U.S. Environmental Protection Agency.

PHYSICAL OR CHEMICAL HAZARDS

STRONG OXIDIZING AGENT: Mix only with water according to label directions. Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, acids, detergents, etc.) inclitating to eyes. etc.) will release chlorine gas which is lungs and mucous membranes.

KUEHNE CHEMICAL COMPANY INC. 86 Hackensack Avenue South Kearny, NJ 07032 EPA REG NO 35317-20001

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EPA EST. NO. 35317-NJ-1

M7745

PRODUCT NAME: SODIUM HYPOCHLORITE

WARNING LABEL INFORMATION (Continued)

MANUFACTURING-USE ONLY

For manufacturing-use only in the formation of end-use products intended as:

- surfaces (e.g. .sanitizers of wooden butcher blocks, stainless steel tops, concrete floors, tile walls); or sanitizers of commercial and household laundry; or
- to wash or assist in lye peeling of fruits and vegetables: .agents OF
- .agents help control microorganisms on eggs for to consumption; or
- disinfectants of poultry drinking water; or .disinfectants of human drinking water (emergency / public / individual), swimming pool water, hubbard/immersion tank water. spas/hot tub, hydrotherapy pools, human drinking water (e.g. water mains); or
- .disinfectants of nonporous har stainless steel, fiberglass); or hard surfaces (e.g. tile.
- agents to help control microorganisms in sewage, waste-water, industrial and pulp and paper process water systems; or
- algicides/slimicides in cooling towers or evaporative condensers;
- .sanitizers of dialysis machines; or .sanitizers of toilet bowls; or
- .acents to help control algae and bacteria in fish and lobster ponds/tanks and conditioning oysters; or

agents to help control slime on boat bottoms; or agents to sanitize and deodorize artificial sand beaches; or agents to kill scavenger fish in fish hatchery ponds. Reformulators and repackagers of this product must obtain their own registrations from the Environmental Protection Agency.

HANDLING AND STORAGE

- .Do not contaminate water, food, or feed by storage or disposal. .Store in a cool, dry, well-ventilated area away from heat, oxidizing agents, strong alkalies, acids and organic peroxidas. .Dike and vent storage tanks.
- .Keep container closed except as necessary when transferring material.
- .Do not allow entry to sewers or waterways.
 .Wastes resulting from the use of this product may be on-site or at an approved waste disposal facility. disposed of

IN CASE OF:

FIRE - Use self-contained broathing apparatus and protective equipment. Use water spray, foam, dry chemical or Fire will liberate toxic gases.

SPILL - Get protective equipment. Contain spill and pump into marked container for reclamation or disposal. Avoid discharges to sewers and streams Spills of 100 pounds or more must be reported to the National Response Center, 1-800-424-8802.



117 E. FREDERICK STREET P.O. BOX 642 BINGHAMTON, N.Y. 13902 PHONE (607) 772-8784

January 25, 1996

Syracuse City School District 725 Harrison Street Syracuse, NY 13210

Dear Customer:

Enclosed are Material Safety Data Sheet(s) for products you recently received from Amrex Chemical Co. Inc. Please take the time to familiarize yourself with each Material Safety Data Sheet, paying particular attention to the health and hazard information as well as the emergency and first aid procedures. This information must be distributed to all applicable employees, agents, contractor, customers, and any others who you can reasonably foresee handling these products, as required by OSHA's Hazard Communication Standard (29CFR 1910.1200).

The information contained in these Material Safety Data Sheets is based on the best information currently available to the manufacturer of the product. The statements contained in these sheets are offered for informational purposes only and are intended to be followed only by persons having related technical skills at their own discretion and risk. Since conditions and manner of use are outside of our control, we make no warranties, express or implied, and no liability in connection with any use of this information.

We at Amrex Chemical Co. Inc. are dedicated to the safe, efficient handling of all our products, and hope the enclosed information will help lead to a safe and accident-free working environment with proper and adequate precautions being taken to protect against all actual or potential health and environmental hazards.

Should you require any additional information, please feel free to contact us.

Sincerely.

Pamela Rexer-Rood

Director of Safety & Regulatory Affairs

Enclosures: Material Safety Data Sheet(s) for:

Hypochlorite, Solution





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PLEASE SIGN AND RETURN TO US AS SOON AS POSSIBLE.

This will acknowledge receipt of Material Safety Data Sheet(s) covering the following product(s) purchased from Amrex Chemical Co. Inc.:

Hypochlorite, Solution

Date: 1/25/96		
Signature:		_
Name:		_
Company Name:	Syracuse City School	District
Address:	725 Harrison Street	_
	Syracuse, NY 13210	····
		· .
Phone:		- -