



**Eilat Swimming Pools L.T.D אילת בריכות שחיה בע"מ**

**שירות-אספקה-אחזקה-ייעוץ לבריכות שחיה ומערכות מים**

**כימיקלים- רובוטים - בקרה ממוחשבת - מכשירי מדידה ובקרה- חלקי חילוף - אביזרי PVC - משאבות**

# Sodium Hypochlorite 5-15%

## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME :..... **Sodium Hypochlorite**  
PRODUCT ID :..... 0286  
SYNONYMS :..... **Sodium hypochlorite / Aqueous Solution ( 5-15% )**  
ISSUE DATE :..... 12/20/2000  
EDITION NO :..... 7

PREPARER : **Product Safety , Chemicals**

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Material/CAS Number</u>	<u>Percant</u>
Sodium Hydroxide 1 1310-73-2	
Sodium Hypochlorite 7682-52-9	5 – 15
Water 7732-18-5 ( 34% solution in water )	84-94

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

**DANGER ! Corrosive – Causes severe burns to eyes and skin .**

**Precaution : Do not get in eyes , on skin , or on clothing . May cause severe burns and permanent damage . Do not breathe vapors or mists from solution . Use only with adequate ventilation . Ventilation must be sufficient to minimize employee exposure to this product . Do not swallow . Wash thoroughly after handling . Do not eat , drink or smoke in work area . Prevent exposure of this product to sunlight and extreme heat which causes decomposition of sodium hypochlorite to irritating chlorine gas and oxygen .**

טל: 08-6333027 פקס: 08-6333037

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## **4. FIRST AID MEASURES**

**INHALATION :** Remove from area to fresh air . Contact a poison control center , emergency room or physician right away as further treatment will be necessary .

**EYE/SKIN CONTACT :** **EYE :** Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes . Contact a poison control center , emergency room or physician right away as further treatment will be necessary . **SKIN :** Run a gentle stream of water over the affected area for 15 minutes . A mild soap may be used if available . Contact a poison control center , emergency room or physician right away as further treatment will be necessary .

**INGESTION :** Gently wipe or rinse the inside of the mouth with water . Sips of water may be given if person is fully conscious . never give anything by mouth to an unconscious or convulsing person . Do not induce vomiting . Contact a poison control center , emergency room or physician right away as further treatment will be necessary .

## **5. FIRE FIGHTING MEASURES**

**FLASH POINT :** *Non-flammable ( in solution )*

**EXTINGUISHING MEDIA :** *Not applicable .*

**SPECIAL FIREFIGHTING PROCEDURES :** *Fire-fighters must wear NIOSH approved , pressure demand , self-contained breathing apparatus with full face piece for possible exposure to hazardous gases . Can decompose to form irritating , poisonous chloride gas and oxygen .*

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### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO BE TAKEN IF MATERIAL RELEASED OR SPILLED :**

**Immediately evacuate the area . Remove sources of ignition . Provide maximum ventilation**  
**Unprotected personnel should move upwind of spill . Only personnel with proper**  
**respiratory and eye/skin protection should be permitted in the area . Dike area to contain**  
**spill . Recover spilled material on adsorbents , such as sand or vermiculite , and place in**  
**covered containers for reclamation or disposal . Large spills : Recover spilled material on**  
**adsorbents , such as vermiculite , and sweep into closed containers for disposal . Do not**  
**use combustible adsorbents such as sawdust . After all visible traces have been removed ,**  
**thoroughly wet vacuum the area . Do not flush to sewer . If area of spill is porous , remove**  
**as much contaminated earth and gravel , etc . as necessary and place in closed containers**  
**for disposal . Small spill ( <10 gallons ) : Can be diluted with large quantities of water and**  
**then flushed to sanitary sewer .**

### 7. HANDLING AND STORAGE

**PRECAUTION TO BE TAKEN DURING HANDLING AND STORAGE :**

**Wear respiratory protection whenever exposure to vapor is likely . Wear appropriate**  
**personal protective equipment when handling this product . Store in a cool , dry , well-**  
**ventilated place . Store only in close , properly labeled containers . Keep container closed**  
**when not in use . Store away from acids and organics . Avoid excessive storage**  
**temperatures and direct sunlight . Will decompose to poisonous , chlorine gas and**  
**flammable oxygen .**

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits :**

8-hour Time Weighted Average ( TWA ) ;15-minute Short-Term Exposure Limit ( STEL )

OSHA : No occupation exposure limits have been established by OSHA for this product .

ACGIH : No occupational exposure limits have been established by ACGIH for this product .

PPG ( IPEL ) : No occupation exposure limits have been established by PPG for this product

**RESPIRATORY PROTECTION :** Use NIOSH approved a half or full facepiece acid gas chemical cartridge respirator when exposures to sodium hypochlorite are likely . An appropriate particulate prefilter is also required when mists are present . The respiratory use limitation made by NIOSH or the manufacturer must be observed . Respiratory protection programs must be in accordance with 29 CFR 1910.134.

**VENTILATION :** Use local exhaust or general room/dilution ventilation as appropriate to control employee exposures in the work place .

**EYE AND FACE PROTECTION :** Close fitting chemical safety goggles with faceshield .

**PROTECTIVE GLOVES :** Neoprene or nitrile gloves .

**OTHER PROTECTIVE EQUIPMENT :** Boots , aprons , or chemical suits should be used when necessary to prevent skin contact / Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.132 ( general requirements ) , 133 ( eye and face protection ) , and . 138 ( hand protection ) .

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 96-120°C ( 205-248°F ) Decomposes  
VAPOR DENSITY ( AIR =1): NA  
SPECIFIC GRAVITY ( Water=1): 1.21 @ 20°C  
PH: Approx . 13  
FREEZING/MELTING POINT : 14°C ( 6°F )  
SOLUBILITY ( wt.%in water ) : infinite  
BULK DENSITY : 8.8 lbs/gal ( U.S.)  
VOLUME % VOLATILE : approx. 94%  
VAPOR PRESSURE : 17.5 mm Hg @ 20°C  
EVAPORATION RATE : Approx. 1 ( water=1)  
HEAT OF SOLUTION : N/A  
PHYSICAL STATE : Liquid  
ODOR : Chlorine . Bleach-like odor .  
COLOR : Clear , Pale Yellow or Greenish .

### 10. STABILITY AND REACTIVITY

STABILITY: **Stable**

HAZARDOUS POLYMERIZATION : **Will not occur .**

INCOPATIBILITY ( CONDITIONS/MATERIALS TO AVOID):

Avoid mixing with acids ( liberates chlorine ) , ammonia , urea , oxidizing materials , and metals such as nickel , copper , tin , manganese and iron (liberates oxygen) . Excessive heat .

HAZARDOUS THERMEL DECOMPOSITION/COMBUSTION PRODUCTS :

Chlorine gas and oxygen .

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### 11. TOXICOLOGICAL INFORMATION

ACUTE INHALATION LC50 : Unknown

SKIN IRRITATION :

Corrosive

EYE IRRITATION :

Corrosive

ACUTE ORAL LD50:

(rat) 8.91 g/kg ( 12% solution ) Slight to very low

toxicity .

CHROMIC EFFECTS/CARCINOGENICITY : This product is NOT listed as a carcinogen or suspected carcinogen by NPT , IARC , or OSHA .

MEDICAL CONDITIONS AGGRAVATED : None known .

EFFECT OF OVEREXPOSURE :

ACUTE :

Inhalation : Inhalation of mist or fumes can cause bronchial irritation , cough , difficult breathing , inflammation of the mouth , nausea , and in severe exposures , pulmonary edema . Material has chlorine odor .

**Eye/skin : Liquid contact can produce irritation of the skin with blistering and eczema .**

**Direct contact with eyes may cause redness , pain , burns and permanent damage .**

**Ingestion : Ingestion of a few ounces can cause corrosion of mucous membranes , swelling of the throat , perforation of the esophagus , and stomach , vomiting , colitis , hypotension and circulatory collapse . May lead to convulsion , coma or death . At 15% concentrations , as little as 1 ounce may be lethal due to corrosive properties .**

CHRONIC :

**Carcinogenesis : The carcinogenic potential of sodium hypochlorite was studied in F344 Rats . After 104 weeks of drinking water containing up to 2000 ppm sodium hypochlorite , there was no evidence that this chemical produced any carcinogenic response . In addition , this exposure did not result in any adverse effect in blood , chemistry , or other target organs .**

**Safe handling of this material on a long term basis should emphasize repeated acute exposure .**

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## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION :**

No data at this time .

<b>PPG :</b>	<b>0286</b>	<b>Sodium Hypochlorite</b>	<b>12/20/2000</b>
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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD :**

Dispose of in an approved hazardous waste management facility . Care must be taken when using or disposing of chemical materials and /or their containers in accordance with the clean Air Act , the clean Water Act ,the Resource Conservation and Recovery Act , as well as any other relevant Federal ,State , or local laws / regulations regarding disposal .

## 14. TRANSPORT INFORMATION

<b>Proper Shipping Name :</b>	Sodium hypochlorite solution
<b>NOS Technical Name :</b>	Sodium Tetrasulfide
<b>Hazard Class :</b>	8 ( Corrosive )
<b>UN Number :</b>	UN1791
<b>Packing Group :</b>	III
<b>USA-RQ,Hazardous Substance and Quantity :</b>	100 lbs./45.4 Kg

**CANADA TDG DESCRIPTION :** Canada adds 9.2 subrisk for concentration greater then 20% if shipped in a container larger then 3000 liters .

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## **15. REGULATORY INFORMATION**

**USA TSCA :** This product is listed on the TSCA Inventory .

**EUROPE EINECS :** This product is listed on EINECS . ( 231-668-3)

**CANADA DSL :** This product is listed on the Canadian DSL .

**AUSTRALIA AICS :** This product is listed on AICS .

**KOREA ECL :** This product is listed on ECL .

**JAPAN MITI (ENCS) :** All components in this product are listed on the Japanese Existing and and new Chemical Substances ( ENCS ) chemical inventory .

**SARA TITLE 111:**

**SARA (311.312) Hazard Class :**

Acute Health Hazard .

**SARA (313) Chemicals :**

Not listed .

**SARA Extremely Hazardous Substance :**

Not listed .

**CERCLA Hazardous Substance :**

Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with a reportable quantity of 100 pounds .

**RCRA:** Not listed

**CANADA REGULATIONS (WHMIS) :** Class E – Corrosive Material .

## **16 . OTHER INFORMATION**

**The following has been revised since the last issue of this MSDS :**

Data . Edition has been reformatted into 16 sections .

**Previous revision data :** 06/23/1997

**Previous edition number :** 006

**NA=Not Available**

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