## HKC H. Krevit & Company, Inc.

## Superior Water Treatment Chemicals Since 1919

## Sodium Hypochlorite, 5-20%

Version 6 Revision Date 5/01/2011 Print Date 5/01/2011

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

Sodium Hypochlorite, 5-20%

Product code

MSDS Number

10000032

Synonyms

Sodium Hypochlorite -Hypo, Liquid Bleach, Bleach, Hypochlorite

Chemical Family

Hypochlorite

Molecular formula

NaOCI

Product Use Description

Swimming pool chlorinator, hard surface cleaner, mildecide, Water treatment

chemical, Biocides, bleach solutions and bleach fixer solutions

Company

H. Krevit & Company, Inc.

P.O. Box 9433, 67 Welton St.

New Haven, CT 06534

Emergency Phone Number

US: 1-800-424-9300 - CHEMTREC

### SECTION 2. HAZARDS IDENTIFICATION

**HMIS Classification** 

: Health Hazard: 3 Flammability: 0

Physical hazards: 2

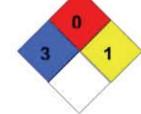
NFPA Classification

: Health Hazard: 3

Fire Hazard: 0

Reactivity Hazard: 1

HMIS	
Health Hazard	3
Flammability	0
Physical hazards	2



### **Emergency Overview**

OSHA Hazards

: OXIDIZER, UNSTABLE (REACTIVE), CORROSIVE

Immediately Dangerous to Life or : Not established for the product.

Health

### Potential Health Effects

Primary Routes of Entry

Aggravated Medical Condition

Inhalation

: Ingestion, Eyes, Inhalation, Skin Absorption

: Asthma, Heart disease, Respiratory disorder

: Inhalation of vapors is irritating to the respiratory system, may cause throat

pain and cough.

Inhalation of aerosol may cause irritation to the upper respiratory tract. Higher exposure may cause lung edema, circulatory collapse and

unconsciousness.

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Skin : May cause skin irritation and/or dermatitis.

Prolonged skin exposure may cause destruction of the dermis with

impairment of the skin to regenerate at site of contact.

Eyes : Causes serious eye irritation.

Blurred vision

May cause impairment of vision and corneal damage

Ingestion : Ingestion or inhalation of high concentrations may cause injuries to

gastrointestinal tract, liver, kidneys and central nervous system.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Exposure : Repeated inhalation exposure may cause impairment of lung function and

permanent lung damage.

Effects from chronic skin exposure would be similar to those from single

exposure except for effects secondary to tissue destruction.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, IARC: possible or confirmed human carcinogen by IARC.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component	CAS-No.	Weight %	
sodium hypochlorite	7681-52-9	5.00 - 20.00	
sodium hydroxide	1310-73-2	0.04 - 2.00	

#### SECTION 4. FIRST AID MEASURES

#### First aid procedures

Eye contact IMMEDIATELY flush eyes with plenty of water holding eyelids apart for at least 15-20 minutes

Get medical attention IMMEDIATELY.

Skin contact 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.

Ingestion Call a poison control center or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to do so by the poison control center or doctor.

Do not give anything by mouth to an unconscious person.

Move person to fresh air. Inhalation

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If breathing is difficult oxygen may be beneficial if administered by trained personnel.

- If breathing has stopped, apply artificial respiration.
- Call a physician or poison control center IMMEDIATELY.

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

Show this safety data sheet to the doctor in attendance.

Notes to physician

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Comments Probable mucosal damage may contraindicate the use of gastric lavage.

### SECTION 5. FIRE-FIGHTING MEASURES

### Flammable properties

Flash point : not applicable

Lower explosion limit : not applicable Upper explosion limit : not applicable

## Fire fighting

fire-fighters

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

· On small fire, use dry chemical, carbon dioxide or water spray.

On large fires, use water in flooding quantities as fog.

Unsuitable extinguishing media Do not use Mono Ammonium Phosphate (MAP) type extinguishers directly on this product

Further information . Cool containers / tanks with water spray.

## Protective equipment and precautions for firefighters

Specific hazards during fire

Corrosive

fighting Special protective equipment for Additional protective clothing must be worn to prevent personal contact

with this material. Those items include but are not limited to: boots gloves, hard hat, splash-proof goggles, full face shield and impervious clothing, i.e. chemically impermeable suit.

Compatible materials for response to this material are neoprene and butyl rubber.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

: Restrict access to affected area. Personal precautions

Use personal protective equipment.

Use NIOSH approved respiratory protection.

Keep people away from and upwind of spill/leak.

: Try to prevent the material from entering drains or water courses.

Methods for containment /

Methods for cleaning up Prevent further leakage or spillage if safe to do so.

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> Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

Will form hazardous reaction products

Suppress (knock down) gases/vapours/mists with a water spray jet. Contain spillage, soak up with non-combustible absorbent material, (e.g.

sand, earth, diatomaceous earth, vermiculite) and transfer to a suitable container for disposal according to local / state / province/national regulations

(see section 13).

Additional advice

- Dispose of as hazardous waste in compliance with local, or your state and federal regulations.
  - You are requested to contact the emergency numbers listed below before beginning any such operation.

FOR ALL ACCIDENTS, CALL CHEMTREC AT 800-424-9300

### SECTION 7. HANDLING AND STORAGE

### Handling

: Personnel working with this chemical should be trained on its hazards. Handling

Avoid contact with skin and eyes.

Do not ingest.

Avoid inhalation of vapor or mist. Wear personal protective equipment. For personal protection see section 8.

Advice on protection against fire

and explosion

: Normal measures for preventive fire protection.

Storage

Requirements for storage areas

and containers

: Do not freeze.

Store in a cool and shaded area.

Keep in a well-ventilated place.

To maintain product quality, do not store in heat or direct sunlight.

Decomposition rate increases as it is heated.

Keep in properly labeled containers.

Keep container closed when not in use.

Store at temperatures not

exceeding

: 86 F (30 C)

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
sodium hydroxide	1310-73-2	CEIL	2 mg/m3	1994-09-01	ACGIH
		TWA	2 mg/m3	1993-06-30	OSHA P1

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Engineering measures

: Use local exhaust ventilation to maintain levels to below the PEL. Engineering measures

Personal protective equipment

Eye protection : Ensure that eyewash stations and safety showers are close to the workstation

location. Chemical resistant goggles must be worn.

Boots. Full protective suit Wear protective gloves. Skin and body protection

Respiratory protection : Sudden release of chlorine hazard. If air concentrations above the PEL are

possible, wear a NIOSH approved respirator. Wear respiratory equipment

when entering the spray area.

Hygiene measures General industrial hygiene practice.

Suitable material

Boots.

Neoprene

butyl-rubber

PVC

Viton ®

Saranex®

butyl-rubber PVC

Gloves

Neoprene

Viton ®

Saranex®

 Viton ® Saranex®

Protective suit

PVC

Neoprene

butyl-rubber

The listed materials are guidelines only and there are numerous PPE alternatives depending on the site specifics of where the chemical is used. You should always consult with your PPE supplier for the correct tested material.

Before using this chemical you should be aware of its hazards and be knowledgeable of emergency procedures in the event of a spill.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form liquid

Color yellow to yellowish green

Odor pungent

### Safety data

Flash point not applicable Lower explosion limit : not applicable Upper explosion limit : not applicable

Autoignition temperature : not applicable

Molecular Weight : 74.5 g/mol

Hq 12 - 14 at 77 F (25 C) -17 F (-27 C) 16% Solution Freezing point

Boiling point/boiling range : Decomposes on heating.

Vapor pressure 12 mmHg at 68 F (20 C) 12.5% Solution

Bulk density not applicable Water solubility completely miscible Evaporation rate no data available

#### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid High heat, sunlight and ultra-violet light

Materials to avoid Oxidizing agents, Acids, Nitrogen containing organics, Metals, Iron,

Copper, Nickel, Cobalt, Organic materials, Ammonia

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Hazardous decomposition

products

: Decomposition will result in the formation of oxygen from contact with copper, nickel, cobalt and iron solids such as rust.

Decomposition rate increases as it is heated.

May develop chlorine if mixed with acidic solutions.

Thermal decomposition

: Decomposition rate increases as it is heated.

Hazardous polymerization

: Does not occur

### SECTION 11. TOXICOLOGICAL INFORMATION

## Human Threshold Response

: approximately 0.9 mg/m3 (0.3 ppm)pungent

Irritation Threshold

Odor threshold

: no data available

Immediately Dangerous to Life or : Not established for the product.

Health

### Animal Toxicology

Acute oral toxicity

: LD50 rat

Dose: 3 - 5 g/kg

Acute dermal toxicity

: LD50 rabbit

Dose: > 2 a/kg

Acute inhalation toxicity

: LC50

no data available

### SECTION 12. ECOLOGICAL INFORMATION

SECTION 13. DISPOSAL CONSIDERATIONS

Acute Fish toxicity

Waste Classification

: If this product becomes a waste, it meets the criteria of a hazardous waste as

defined under 40 CFR 261 and would have the following: D002

Further information

- If this product becomes a hazardous waste, it will be a hazardous waste which is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly.
- Dispose of as hazardous waste in compliance with local, province, state and federal regulations.

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL.

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RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, PROVINCE, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NON HAZARDOUS WASTES.

### SECTION 14. TRANSPORT INFORMATION

DOT Proper shipping name

: Hypochlorite Solutions

**UN-Number** 

: UN1791

Class

: 8

Packing group

: 111

Hazard Labels/Placard

: 8

Emergency Response

: 154

Guidebook Number Reportable Quantity

: 100 LB

(Per 49 CFR 172.101, Appendix)

FOR ALL ACCIDENTS, CALL CHEMTREC AT 800-424-9300

#### SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Oxidizer, Unstable (reactive), Corrosive

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CERCLA : 100 lbs

SARA 311/312 Hazards : Acute Health Hazard

> Chronic Health Hazard Reactivity Hazard

### EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

	ot contain any chemical components with kno levels established by SARA Title III, Section	
STATE REGULATIONS		
Massachusetts Right To Know Components	: Hypochlorous acid, sodium salt 1991-07-01	7681-52-9
	Sodium hydroxide (Na(OH)) 1991-07-01	1310-73-2
Pennsylvania Right To Know Components	: Hypochlorous acid, sodium salt 1991-07-01	7681-52-9
	Sodium hydroxide (Na(OH)) 1991-07-01	1310-73-2
	Sodium chloride (NaCl)	7647-14-5
	Water	7732-18-5
	Carbonic acid disodium salt	497-19-8
New Jersey Right To Know Components	; Water	7732-18-5
	Hypochlorous acid, sodium salt 1991-07-01	7681-52-9
	Sodium chloride (NaCl)	7647-14-5
	Sodium hydroxide (Na(OH))	1310-73-2

1991-07-01

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Prepared by:

Version 6

H. Krevit & Company, Inc.

P.O. Box 9433, 67 Welton St.

New Haven, CT 06534

(203) 772-3350 (Tel.)

(203) 776-0730 (Fax)

### SECTION 16. OTHER INFORMATION

### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.