# SAFETY DATA SHEET



Issue Date 10-Jun-2014 Revision Date 01-Jan-2016 Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name HI CHLOR SANITIZER

Other means of identification

 Product Code
 2007

 UN/ID No.
 1791

Synonyms EPA Registered No. 148-1288-61524

Recommended use of the chemical and restrictions on use

Recommended Use Low Temp Dish Machine Sanitizer

Uses advised against No information available

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Harvard Chemical Research, Inc., 3595 Zip Industrial Blvd., Atlanta, GA 30354

Emergency telephone number

Company Phone Number 1-404-761-0657 24 Hour Emergency Phone Number 800-424-9300

Emergency Telephone Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

### Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Skin corrosion/irritation         | Category 1 |
|-----------------------------------|------------|
| Serious eye damage/eye irritation | Category 1 |

#### Label elements

### **Emergency Overview**

#### Danger

#### Hazard statements

Causes severe skin burns and eye damage

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Appearance Yellow liquid Physical state liquid Odor Bleach odor

### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

# Other Information

- Very toxic to aquatic life with long lasting effects
- · Very toxic to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name       | CAS No.   | Weight-% | Trade Secret |
|---------------------|-----------|----------|--------------|
| Sodium Hypochlorite | 7681-52-9 | 12.5%    | *            |

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First aid measures

**Eye contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact** Rinse with clear running water for 15 minutes and seek medical attention.

**Inhalation** Remove to fresh air. If breathing does not return to normal, seek medical attention.

**Ingestion** Do not induce vomiting. Immediately drink large quantities of water. Get medical attention.

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# Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use water in flooding quanitites.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

Bleach decomposes when heated to high temperatrues, which may rupture containers.

#### Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

### Protective equipment and precautions for firefighters

Use NIOSH approved self-contained breathing apparatus for chlorine gas vapors.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

# Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**PH adjust and dispose in accordance with federal and state regulations.

### 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children.

Do not freeze.

**Incompatible materials** Acids. Ammonia. Organic compounds. Salts.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls** 

**Engineering Controls** Showers

> Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Wear Neoprene or protective rubber gloves. Drenching safety shower and eye wash station.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Wash contaminated clothing before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid

Appearance Yellow Liquid Chlorine odor Odor

Color light yellow **Odor threshold** No information available

Remarks • Method Property Values

12.5 pН

Melting point/freezing point No information available

Boiling point / boiling range 100 212°F

Flash point No information available

**Evaporation rate** 

Flammability (solid, gas)

Flammability Limit in Air

No information available

No information available Upper flammability limit: Lower flammability limit: No information available Vapor pressure No information available

Vapor density 19.2

**Specific Gravity** 1.20 Water solubility

completely soluble Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

Other Information

No information available Softening point Molecular weight No information available **VOC Content (%)** No information available

**Density** 10.0

**Bulk density** No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

### **Conditions to avoid**

Extremes of temperature and direct sunlight.

### **Incompatible materials**

Acids. Ammonia. Organic compounds. Salts.

#### **Hazardous Decomposition Products**

Chlorine. Chloramines. Chlorine dioxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Product Information Irritating to mucous membranes, skin and eyes. May cause blindness.

**Inhalation** Irritation and coughing pulmonary edema.

**Eye contact** Severely irritating to eyes.

**Skin Contact** Irritating to skin.

**Ingestion** If ingested, burning sensation, corrosion of mucous membranes and vomiting, circulatory

collapse, convulsion, coma and even death.

| Chemical Name       | Oral LD50          | Dermal LD50            | Inhalation LC50 |
|---------------------|--------------------|------------------------|-----------------|
| Sodium Hypochlorite | = 8200 mg/kg (Rat) | > 10000 mg/kg (Rabbit) | -               |
| 7681-52-9           |                    |                        |                 |

# Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

| Chemical Name       | ACGIH | IARC    | NTP | OSHA |
|---------------------|-------|---------|-----|------|
| Sodium Hypochlorite | -     | Group 3 | -   | -    |
| 7681-52-9           |       |         |     |      |

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

### Numerical measures of toxicity - Product Information

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#### **Unknown Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document ...

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name       | Algae/aquatic plants             | Fish                                | Crustacea                          |
|---------------------|----------------------------------|-------------------------------------|------------------------------------|
| Sodium Hypochlorite | 0.095: 24 h Skeletonema costatum | 0.06 - 0.11: 96 h Pimephales        | 0.033 - 0.044: 48 h Daphnia magna  |
| 7681-52-9           | mg/L EC50                        | promelas mg/L LC50 flow-through     | mg/L EC50 Static 2.1: 96 h Daphnia |
|                     |                                  | 4.5 - 7.6: 96 h Pimephales promelas | magna mg/L EC50                    |
|                     |                                  | mg/L LC50 static 0.4 - 0.8: 96 h    |                                    |
|                     |                                  | Lepomis macrochirus mg/L LC50       |                                    |
|                     |                                  | static 0.28 - 1: 96 h Lepomis       |                                    |
|                     |                                  | macrochirus mg/L LC50               |                                    |
|                     |                                  | flow-through 0.05 - 0.771: 96 h     |                                    |
|                     |                                  | Oncorhynchus mykiss mg/L LC50       |                                    |
|                     |                                  | flow-through 0.03 - 0.19: 96 h      |                                    |
|                     |                                  | Oncorhynchus mykiss mg/L LC50       |                                    |
|                     |                                  | semi-static 0.18 - 0.22: 96 h       |                                    |
|                     |                                  | Oncorhynchus mykiss mg/L LC50       |                                    |
|                     |                                  | static                              |                                    |

# Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

# 14. TRANSPORT INFORMATION

DOT Regulated 1791

Proper shipping name Sodium Hypochlorite

Hazard Class 8
Packing Group ||

# 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS** Complies Complies **IECSC KECL** Complies **PICCS** Complies **AICS** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

| Acute health hazard               | No |
|-----------------------------------|----|
| Chronic Health Hazard             | No |
| Fire hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard                   | No |

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name                    | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|----------------------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Sodium Hypochlorite<br>7681-52-9 | 100 lb                         | -                      | -                         | Х                             |

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

| Chemical Name       | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---------------------|--------------------------|----------------|--------------------------|
| Sodium Hypochlorite | 100 lb                   | =              | RQ 100 lb final RQ       |
| 7681-52-9           |                          |                | RQ 45.4 kg final RQ      |

## **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

| Chemical Name       | New Jersey | Massachusetts | Pennsylvania |
|---------------------|------------|---------------|--------------|
| Sodium Hypochlorite | X          | X             | X            |
| 7681-52-9           |            |               |              |

### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not Applicable

# **16. OTHER INFORMATION**

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 2 Flammability 0 Physical hazards 2 Personal protection X

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**Revision Note** 

No information available

**Disclaimer** 

The information provided in this Material 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. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**