# ChlorMate™ Liquid HW

# SAFETY DATA SHEET

**Preparation Date:** 09-Jul-2008 **Revision Date:** 03-Jan-2022 **Revision Number:** 2

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

**Product Identifier**

**Product Name** ChlorMate™ Liquid HW

**Other means of identification**

**Item#:** 1823

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended use** Chlorinated alkaline detergent, Restricted to professional users

**Uses advised against** All other

**Details of the supplier of the safety data sheet**

**Supplier** DeLaval Cleaning Solutions
11100 N. Congress Ave.
Kansas City, MO 64153 : 816-891-7700, 8am – 5pm M-F

**Emergency Telephone Number**

Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Classification**

| | |
|---|---|
| Skin Corrosion/Irritation | Category 1 Sub-category A |
| Serious eye damage/eye irritation | Category 1 |

| | |
|---|---|
| Corrosive to metals | Category 1 |

**Label Elements**

**Emergency Overview**

**DANGER**

**Hazard Statements**

Causes severe skin burns and eye damage
May be corrosive to metals

**Appearance** Light yellow **Physical state** Liquid **Odor** Slight chlorine

**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

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No. | Weight-% |
|---|---|---|
| Potassium hydroxide | 1310-58-3 | 10 - 20 |
| Sodium hypochlorite | 7681-52-9 | 1 - 10 |

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

## 4. FIRST AID MEASURES

**Description of first-aid measures**

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion** Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

Corrosive. The product causes burns of eyes, skin and mucous membranes.

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

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**
No information available.

**Specific hazards arising from the chemical**
The product causes burns of eyes, skin and mucous membranes.

**Sensitivity to static discharge** None.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA** **Health hazards** 3 **Flammability** 0 **Instability** 1

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Environmental Precautions**
Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**
Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**Handling** Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**Incompatible Materials** Acids, organic materials, light metals (e.g. aluminum, copper, brass, zinc galvanized)

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Potassium hydroxide<br>1310-58-3 | Ceiling: 2 mg/m³ | Ceiling: 2 mg/m³ | - |

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Goggles.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical state** | Liquid | **Odor** | Slight chlorine |
| **Appearance** | Light yellow | **Odor Threshold** | No information available |

| **Property** | **Values** | **Remarks/ Method** |
|---|---|---|
| **pH** | No information available | |
| **Melting point/freezing point** | No information available | |
| **Boiling Point/Range** | No information available | |
| **Flash Point** | No information available | |
| **Evaporation rate** | No information available | |
| **Flammability (solid, gas)** | No information available | |
| **Flammability Limit in Air** | | |
| **Upper flammability limit** | No information available | |
| **Lower flammability limit** | No information available | |
| **Vapor Pressure** | No information available | |
| **Vapor Density** | No information available | |
| **Specific Gravity** | 1.29 | |
| **Water Solubility** | soluble | |
| **Partition coefficient: n-octanol/water** | No information available | |
| **Autoignition Temperature** | No information available | |
| **Decomposition temperature** | No information available | |
| **Viscosity of Product** | No information available | |
| **Dynamic viscosity** | No information available | |

**Other information**

**Liquid Density** 10.8 lb/gal

## 10. STABILITY AND REACTIVITY

**Reactivity**
May react with other chemicals. Do not mix with other chemicals except as directed on label.

**Chemical Stability**
Stable under normal conditions.

**Possibility of hazardous reactions**
May develop chlorine if mixed with acidic solutions. Gives off hydrogen by reaction with some metals (e.g. aluminum).

**Conditions to Avoid**
Extremes of temperature and direct sunlight.

**Incompatible Materials**
Acids, organic materials, light metals (e.g. aluminum, copper, brass, zinc galvanized)

**Hazardous decomposition products**
Chlorine.

## 11. TOXICOLOGICAL INFORMATION

**Principal Routes of Exposure** Eye contact, Skin contact, Ingestion, Inhalation

**Information on likely routes of exposure**

| | |
|---|---|
| **Eyes** | Corrosive to the eyes and may cause severe damage including blindness. |
| **Skin** | Extremely corrosive and destructive to tissue. |

**Ingestion** Ingestion causes burns of the upper digestive and respiratory tracts.
**Inhalation** Inhalation of vapours in high concentration may cause irritation of respiratory system.

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

**Sensitization** Product is not identified as a sensitizer according to OSHA regulations.
**Mutagenic effects** Product is not identified as a mutagen according to OSHA regulations.
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Sodium hypochlorite 7681-52-9 | Not Listed | Group 3 | Not Listed | Not Listed |

**Legend:**
*IARC (International Agency for Research on Cancer)*
*Group 3 - Not classifiable*

**Reproductive Effects** Product is not identified as having reproductive effects according to OSHA regulations.
**STOT - single exposure** Product is not identified as having single target organ toxicity (single exposure) according to OSHA regulations.
**STOT - repeated exposure** Product is not identified as having single target organ toxicity (repeated exposure) according to OSHA regulations.
**Aspiration Hazard** Product is not identified as an aspiration hazard according to OSHA regulations.

**Numerical measures of toxicity**
If available, toxicity values of individual components are shown below.

| Chemical name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Potassium hydroxide 1310-58-3 | = 284 mg/kg ( Rat ) | No data available | No data available |
| Sodium hypochlorite 7681-52-9 | = 8.91 g/kg ( Rat ) | 10000 mg/kg ( Rabbit ) | No data available |

0% of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
If available, ecotoxicity values of individual components are shown below.

| Chemical name | Algae/aquatic plants | Fish | Microtox | Waterflea |
|---|---|---|---|---|
| Potassium hydroxide 1310-58-3 | No data available | 80: 96 h Gambusia affinis mg/L LC50 static | No data available | No data available |
| Sodium hypochlorite 7681-52-9 | 0.095: 24 h Skeletonema costatum mg/L EC50 | LC50 (96 h) 0.06 mg/l | No data available | 0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static 2.1: 96 h Daphnia magna mg/L EC50 |

**Persistence and degradability**
No information available.

**Bioaccumulation/Accumulation**
No information available.

**Other adverse effects**
No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste Disposal Method** Dispose of in accordance with local regulations. Should not be released into the environment.

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

**DOT**

**UN-No** 3266
**Proper Shipping Name** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. ( Contains, Sodium hypochlorite, Potassium hydroxide )
**Hazard Class** 8
**Packing Group** II

## 15. REGULATORY INFORMATION

State Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Potassium hydroxide 1310-58-3 | X | X | X |
| Sodium hypochlorite 7681-52-9 | X | X | X |

**U.S. EPA Label information**

**EPA Pesticide registration number** Not applicable

## 16. OTHER INFORMATION

**Preparation Date:** 09-Jul-2008
**Revision Date:** 03-Jan-2022
**Revision Note:** None

**Disclaimer**

**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. 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 SDS**