

11-Jul-2016

## 1. IDENTIFICATION

### Product identifier

**Product Name** Pool Essentials Chlorinating Liquid

### Other means of identification

**Product Code** 20031ESS

**UN/ID no.** 1791

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

**Recommended Use** Disinfectant.

**Uses advised against** Do not mix with other chemicals

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Recreational Water Products, Inc.  
PO Box 1449  
Buford, GA 30515-1449  
Telephone: (800) 252-7665

#### **Manufacturer Address**

KIK Pool Additives Inc  
5160 East Airport Drive  
Ontario, California 91761  
1-800-767-7665

### Emergency telephone number

**Emergency Telephone** Poison Control Center (Medical) : (866) 366-5048  
Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

## 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 |
| Corrosive to metals               | Category 1 |

### Label elements

#### **Emergency Overview**

**Danger**

#### **Hazard statements**

Causes severe skin burns and eye damage

May be corrosive to metals



**Color** light yellow

**Physical state** liquid

**Odor** 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  
Keep only in original container

**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  
Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

11.5% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

| Chemical Name       | CAS No.   | Weight-% |
|---------------------|-----------|----------|
| Sodium hypochlorite | 7681-52-9 | 10       |

**4. FIRST AID MEASURES****Description of first aid measures**

|   |  |
|---|--|
| <b>General advice</b>                     | Immediate medical attention is required.   |
| <b>Eye contact</b>                        | Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.  |
| <b>Skin contact</b>                       | Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.   |
| <b>Inhalation</b>                         | Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.   |
| <b>Ingestion</b>                          | Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately. |
| <b>Self-protection of the first aider</b> | Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.  |

**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** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. 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. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**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.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions**

**Environmental precautions** Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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** Soak up with inert absorbent material. Clean contaminated surface thoroughly. Dike far ahead of liquid spill for later disposal. Take up mechanically, placing in appropriate containers for disposal. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

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

|                               |  |
|-------------------------------|--|
| <b>Storage Conditions</b>     | Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. |
| <b>Incompatible materials</b> | Acids, Ammonia, Aluminum, Steel. Incompatible with strong acids and bases. Incompatible with oxidizing agents.   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

|                            |   |
|----------------------------|---|
| <b>Exposure Guidelines</b> | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|----------------------------|---|

### Appropriate engineering controls

|                             |   |
|-----------------------------|---|
| <b>Engineering Controls</b> | Showers<br>Eyewash stations<br>Ventilation systems. |
|-----------------------------|---|

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

|                                       |  |
|---------------------------------------|--|
| <b>Eye/face protection</b>            | Tight sealing safety goggles. Face protection shield.  |
| <b>Skin and body protection</b>       | Wear protective gloves and protective clothing.  |
| <b>Respiratory protection</b>         | 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.  |
| <b>General Hygiene Considerations</b> | When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                |                                  |                                |                          |
|--------------------------------|----------------------------------|--------------------------------|--------------------------|
| <b>Physical state</b>          | liquid                           | <b>Odor</b>                    | Chlorine                 |
| <b>Appearance</b>              | colourless to pale yellow liquid | <b>Odor threshold</b>          | No information available |
| <b>Color</b>                   | light yellow                     |                                |                          |
| <b><u>Property</u></b>         | <b><u>Values</u></b>             | <b><u>Remarks • Method</u></b> |                          |
| pH                             | ~12.5                            |                                |                          |
| Melting point / freezing point | No information available         |                                |                          |
| Boiling point / boiling 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               | ~1.1                             |                                |                          |
| Water solubility               | No information available         |                                |                          |
| Solubility in other solvents   | No information available         |                                |                          |
| Partition coefficient          | No information available         |                                |                          |

|                                  |                          |
|----------------------------------|--------------------------|
| <b>Autoignition temperature</b>  | No information available |
| <b>Decomposition temperature</b> | No information available |
| <b>Kinematic viscosity</b>       | No information available |
| <b>Dynamic viscosity</b>         | No information available |
| <b>Density</b>                   | No information available |
| <b>Bulk density</b>              | No information available |
| <b>Explosive properties</b>      | No information available |
| <b>Oxidizing properties</b>      | No information available |

**Other Information**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | None                     |

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Do not mix with other chemicals. Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods.

**Incompatible materials**

Acids, Ammonia, Aluminum, Steel. Incompatible with strong acids and bases. Incompatible with oxidizing agents.

**Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| <b>Eye contact</b>  | Avoid contact with eyes. May cause burns.  |
| <b>Skin contact</b> | Avoid contact with skin. May cause burns.  |
| <b>Ingestion</b>    | May be harmful if swallowed.   |

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

**Information on toxicological effects**

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

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

|                               |  |
|-------------------------------|--|
| <b>Sensitization</b>          | No information available.  |
| <b>Germ cell mutagenicity</b> | No information available.  |
| <b>Carcinogenicity</b>        | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Chemical Name                    | ACGIH | IARC    | NTP | OSHA |
|----------------------------------|-------|---------|-----|------|
| Sodium hypochlorite<br>7681-52-9 | -     | Group 3 | -   | -    |

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Chronic toxicity**

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure.

Possible risk of irreversible effects.

**Aspiration hazard**

No information available.

**Numerical measures of toxicity - Product Information**

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

ATEmix (dermal)

87043 mg/kg

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects

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

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

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

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. This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated packaging**

Do not reuse container.

US EPA Waste Number D002

#### 14. TRANSPORT INFORMATION

**Note:** Limited quantity (LQ) exception is possible

##### DOT

UN/ID no. 1791  
Proper shipping name HYPOCHLORITE SOLUTION  
Hazard Class 8  
Packing Group III  
Description UN1791, HYPOCHLORITE SOLUTION, 8, III

##### TDG

UN/ID no. 1791  
Proper shipping name HYPOCHLORITE SOLUTION  
Hazard Class 8  
Packing Group III  
Marine pollutant This material meets the definition of a marine pollutant.  
Description UN1791, HYPOCHLORITE SOLUTION, 8, III

##### IATA

UN/ID no. 1791  
Proper shipping name HYPOCHLORITE SOLUTION  
Hazard Class 8  
Packing Group III  
Description UN1791, HYPOCHLORITE SOLUTION, 8, III

##### IMDG

UN/ID no. 1791  
Proper shipping name HYPOCHLORITE SOLUTION  
Hazard Class 8  
Packing Group III  
Description UN1791, HYPOCHLORITE SOLUTION, 8, III  
Marine pollutant This material meets the definition of a marine pollutant

#### 15. REGULATORY INFORMATION

##### International Inventories

TSCA Complies  
DSL/NDSL Complies

##### Legend:

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

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

##### 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               | Yes |
| Chronic Health Hazard             | No  |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name                    | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|----------------------------------|--------------------------|----------------|---|
| Sodium hypochlorite<br>7681-52-9 | 100 lb                   | -              | RQ 100 lb final RQ<br>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<br>7681-52-9 | X          | X             | X            |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** 7616-45

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**Difference between SDS and EPA Pesticide label**

**DANGER:** Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Do not get in eyes, on skin, or on clothing. Wear safety glasses or goggles and rubber gloves when handling this product. Wash after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until vapors have dissipated.

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <b>NFPA</b> | Health hazards 3 | Flammability 0 | Instability 1      | Physical and Chemical Properties - |
| <b>HMIS</b> | Health hazards 3 | Flammability 0 | Physical hazards 1 | Personal protection B              |

**Prepared By** Regulatory Affairs  
**Revision Date** 11-Jul-2016  
**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**