

# SAFETY DATA SHEET

05-Jun-2017

## 1. IDENTIFICATION

### Product identifier

**Product Name** Bleach

### Other means of identification

**UN/ID no.** 1791

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

**Recommended Use** Consumer use. Cleaning agent. Disinfectant. Chlorine-based bleaching agents.  
**Uses advised against** Do not mix with other chemicals

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

#### **Manufacturer Address**

KIK International LLC  
33 Macintosh Blvd.  
Concord, Ontario  
Canada L4K 4L5  
1-800-479-6603

### 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 2 |
| Serious eye damage/eye irritation | Category 1 |
| Corrosive to metals               | Category 1 |

### Label elements

#### **Emergency Overview**

**Danger**

#### **Hazard statements**

Causes skin irritation  
Causes serious eye damage  
May be corrosive to metals



**Color** light yellow

**Physical state** liquid

**Odor** Chlorine

**Precautionary Statements - Prevention**

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: Wash with plenty of soap and water  
 If skin irritation occurs: Get medical advice/attention  
 Take off contaminated clothing and wash before reuse  
 Absorb spillage to prevent material damage

**Precautionary Statements - Storage**

Store in corrosive resistant plastic container with a resistant inner liner. Keep out of reach of children. Store in a well-ventilated place. Store in a closed container.

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

0% 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 | 8.25     |

### 4. FIRST AID MEASURES

**Description of first aid measures**

|                     |  |
|---------------------|--|
| <b>Eye contact</b>  | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. |
| <b>Skin contact</b> | Wash skin with soap and water. If symptoms persist, call a physician.  |
| <b>Inhalation</b>   | Remove to fresh air.   |
| <b>Ingestion</b>    | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician.              |

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

## 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

No information available.

### 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** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. 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** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

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

**Incompatible materials** Acids, Ammonia, Aluminum, Steel.

## 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**                      Wear safety glasses with side shields (or goggles).

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

**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**      Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

|                       |                  |                       |                          |
|-----------------------|------------------|-----------------------|--------------------------|
| <b>Physical state</b> | liquid           | <b>Odor</b>           | Chlorine                 |
| <b>Appearance</b>     | aqueous solution | <b>Odor threshold</b> | No information available |
| <b>Color</b>          | light yellow     |                       |                          |

| <u>Property</u>                       | <u>Values</u>            | <u>Remarks • Method</u> |
|---------------------------------------|--------------------------|-------------------------|
| <b>pH</b>                             | < 12.5                   |                         |
| <b>Melting point / freezing point</b> | No information available |                         |
| <b>Boiling point / boiling range</b>  | No information available |                         |
| <b>Flash point</b>                    | No information available |                         |
| <b>Evaporation rate</b>               | No information available |                         |
| <b>Flammability (solid, gas)</b>      | No information available |                         |
| <b>Flammability Limit in Air</b>      |                          |                         |
| <b>Upper flammability limit:</b>      | No information available |                         |
| <b>Lower flammability limit:</b>      | No information available |                         |
| <b>Vapor pressure</b>                 | No information available |                         |
| <b>Vapor density</b>                  | No information available |                         |
| <b>Specific Gravity</b>               | ~1.1                     |                         |
| <b>Water solubility</b>               | Soluble in water         |                         |
| <b>Solubility in other solvents</b>   | No information available |                         |
| <b>Partition coefficient</b>          | 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>  | 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.

**Conditions to avoid**

Do not mix with other chemicals. Extremes of temperature and direct sunlight.

**Incompatible materials**

Acids, Ammonia, Aluminum, Steel.

**Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                     |  |
|---------------------|--|
| <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 irritation.   |
| <b>Ingestion</b>    | May be harmful if swallowed.   |

| Chemical Name                    | Oral LD50           | Dermal LD50              | Inhalation LC50 |
|----------------------------------|---------------------|--------------------------|-----------------|
| Sodium hypochlorite<br>7681-52-9 | = 8.91 g/kg ( Rat ) | > 10000 mg/kg ( Rabbit ) | -               |

**Information on toxicological effects**

**Symptoms** No information available.

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

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** 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.  
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects

0% of the mixture consists of component(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 Skeletonema costatum<br>mg/L EC50 | 0.06 - 0.11: 96 h Pimephales<br>promelas mg/L LC50 flow-through<br>4.5 - 7.6: 96 h Pimephales promelas<br>mg/L LC50 static 0.05 - 0.771: 96 h<br>Oncorhynchus mykiss mg/L LC50<br>flow-through 0.4 - 0.8: 96 h Lepomis<br>macrochirus mg/L LC50 static 0.28 -<br>1: 96 h Lepomis macrochirus mg/L<br>LC50 flow-through 0.18 - 0.22: 96 h<br>Oncorhynchus mykiss mg/L LC50<br>static 0.03 - 0.19: 96 h<br>Oncorhynchus mykiss mg/L LC50<br>semi-static | 2.1: 96 h Daphnia magna mg/L<br>EC50 0.033 - 0.044: 48 h Daphnia<br>magna mg/L EC50 Static |

**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.

**Contaminated packaging**

Do not reuse container. Dispose of in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

**Note:**

Limited quantity (LQ) exception is possible

**DOT**

|                      |                                       |
|----------------------|---------------------------------------|
| UNID no.             | 1791                                  |
| Proper shipping name | HYPOCHLORITE SOLUTION                 |
| Hazard Class         | 8                                     |
| Packing Group        | III                                   |
| Description          | UN1791, HYPOCHLORITE SOLUTION, 8, III |

**IATA**

|                      |                                       |
|----------------------|---------------------------------------|
| UNID 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 |

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**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** 70271-24-41348**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.** Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear safety glasses and rubber gloves when handling this product. Wash thoroughly with soap and water 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 strong odors have dissipated. Remove and wash contaminated clothing before reuse.

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

|                    |                         |                       |                           |   |
|--------------------|-------------------------|-----------------------|---------------------------|---|
| <b><u>NFPA</u></b> | <b>Health hazards</b> 2 | <b>Flammability</b> 0 | <b>Instability</b> 1      | <b>Physical and Chemical Properties</b> - |
| <b><u>HMIS</u></b> | <b>Health hazards</b> 2 | <b>Flammability</b> 0 | <b>Physical hazards</b> 1 | <b>Personal protection</b> B              |

**Prepared By** Regulatory Affairs  
**Revision Date** 05-Jun-2017  
**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**