PRODUCT: OLD DUTCH Bleach Gentle Care  
CODE: OD F00-0168

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: OLD DUTCH Bleach Gentle Care  
PRODUCT CODE(S): OD F00-0168  
RECOMMENDED USE: Laundry and Household bleach. Domestic use.  
MANUFACTURING NAME AND ADDRESS: LAVO Inc.  
11900 Boul. Saint-Jean-Baptiste  
Montréal, QC, H1C 2J3  
CANADA  
1-800-361-6898  
24 HOUR EMERGENCY NUMBER: CANUTEC 24-Hour Number: 613-996-6666.

SECTION 02: HAZARD IDENTIFICATION

SIGNAL WORD: WARNING.  
GHS CLASSIFICATION: Skin Corrosion/Irritation Category 2. Eye Irritation Category 2. Acute aquatic toxicity Category 2.  
HAZARD STATEMENTS: H315+H320 Causes skin and eye irritation. H401 Toxic to aquatic life.  
PRECAUTIONARY STATEMENTS: P501 Dispose of contents/container to an approved waste disposal plant.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
<th>CAS #</th>
<th>WT. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hypochlorite</td>
<td>7681-52-9</td>
<td>1.0-3.0</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>&lt;0.5</td>
</tr>
</tbody>
</table>

SECTION 04: FIRST AID MEASURES

ROUTES OF EXPOSURE: Eye, Skin, Ingestion and Inhalation.  
INHALATION: Remove victim to fresh air. If not breathing give artificial respiration or oxygen by trained personnel. Get immediate medical attention. Call a poison center or physician.  
EYE CONTACT: Immediately hold eyelids open and flush with water for at least 15 minutes. Check for and remove any contact lenses if easy to do. Consult a physician.  
SKIN CONTACT: Remove contaminated clothing and wash before reuse. Wash affected area immediately with large amounts of soap and water. Consult a physician.  
INGESTION: Call immediately a poison centre or a doctor. Do not induce vomiting or give anything by mouth to an unconscious person. Rinse out mouth with water.  
ACUTE SYMPTOMS/EFFECTS:  
Eyes: May irritate eyes.  
Ingestion: May be harmful if swallowed.  
Skin: Causes skin burns. Causes skin irritation.  
Inhalation: Inhalation of high concentrations of fumes or mists may cause severe irritation and corrosive damage to the nose, throat and upper respiratory tract.  
DELAYED SYMPTOMS/EFFECTS: Prolonged or repeated contact may cause drying, cracking and de fatting of the skin.  
GENERAL ADVICE: Consult a physician. Show this safety data sheet to the doctor.

SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use fire-extinguishing media appropriate for surrounding materials. Use Water spray, Alcohol-resistant foam, Dry chemical or Carbon dioxide.  
UNSUITABLE EXTINGUISHING MEDIA: Do not use dry chemical extinguishing agents that contain ammonium compounds.  
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: Firefighter should wear proper protective equipment and soft contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Use water to cool fire exposed containers. May include and are not limited to: Chlorine; Hydrogen chloride gas; Oxygen; Sodium dioxides.  
HAZARDOUS COMBUSTION PRODUCTS: 

Hazardous combustion products include: 

- Chlorine 
- Hydrogen chloride gas 
- Oxygen 
- Sodium dioxides 

Other Fires: 

- Alcohol-resistant foam 
- Dry chemical 
- Carbon dioxide 

Inhalation of high concentrations of fumes or mists may cause severe irritation and corrosive damage to the nose, throat and upper respiratory tract.
SECTION 05: FIRE FIGHTING MEASURES

EXPLOSION HAZARDS:
- Sensitivity to static discharge: No information available.
- Sensitivity to mechanical impact: No information available.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONNAL PRECAUTIONS:
Restrict access to area until completion of clean up. Evacuate personnel to safe areas. Ensure clean up is conducted by trained personnel only. Do not touch and walk through spilled material. All persons dealing with clean up should wear the appropriate protective equipment including self contained breathing apparatus. Do not touch damage damaged containers or spilled material unless wearing appropriate protective clothing. Use personnel protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS:
Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Prevent further leakage or spillage if safe to do.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING:
Contain and absorb spilled liquid with non combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal. Flush with water. Do not flush into surface water or sanitary sewer system. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES:
Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. Use in well ventilated areas. Do not get in eyes, on skin or on clothing. Avoid inhalation of mists/vapours/fumes. Wash thoroughly after handling. Keep container tightly closed.

STORAGE NEEDS:
Keep out of reach of children. Protect from sunlight. Keep container tightly closed. Store in a cool, dry and well ventilated area.

STORAGE TEMPERATURE:
<30°C.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS | ACGIH TLV | OSHA PEL | NIOSH IDLH
--- | --- | --- | ---
Sodium Hypochlorite | Not established | Ceiling: 2 mg/m³ | Not established
Sodium Hydroxide | Not established | 2 mg/m³ | Not established

ENGINEERING CONTROLS:
Use under well-ventilated conditions or with respiratory protection.

GENERAL HYGIENE CONSIDERATIONS:
Avoid breathing vapor or mist. Avoid contact with skin, eyes and clothing. Remove soiled clothing and wash it thoroughly before reuse. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Do not eat, drink, smoke or use cosmetics while working with this product.

PERSONNAL PROTECTION EQUIPMENT:
- Eye / Face protection: Wear safety glasses with side shields or goggles.
- Hand protection: Wear protective gloves. Gloves must be inspected prior to use.
- Respiratory protection: Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s). Use a full face respirator with multi-purpose combination or Wear self contained breathing apparatus.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid. Translucent.
COLOUR: Colourless to light yellow.
ODOUR: Weak Chlorine odor.
PH: 11.5-13.5.
DENSITY: 1.03-1.06 g/mL.
% SOLID: 6-8.
FREEZING POINT (°C): No information available.
BOILING POINT (°C): No information available.
FLASH POINT (°C): Not applicable. Product does not sustain combustion.
EVAPORATION RATE: No information available.
VAPOUR PRESSURE (mm Hg): < 2.3 kPa (17.5 mm Hg @ 20°C).
VAPOUR DENSITY (AIR=1): Heavier than air.
SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

SOLUBILITY IN WATER (% W/W)................. Soluble in cold water.
COEFFICIENT OF WATER/OIL ................ No information available.
DISTRIBUTION

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY......................... Stable under the recommended storage and handling conditions prescribed.
REACTIVITY........................................ React vigorously with acids. Reacts with amines and ammonia to form explosively unstable compounds. May develop chlorine if mixed with acidic solutions. Contact with some reactive metals may produce flammable hydrogen gas. Corrosive to metals.
HAZARDOUS POLYMERIZATION............... Hazardous polymerization cannot occur.
CONDITIONS TO AVOID......................... Avoid heat and open flame. Exposure to sunlight. Do not mix with other chemicals.
INCOMPATIBILITY.............................. Avoid contact with the following materials: Urea, Ammonia, Amides, Amines, Nitrogen containing compounds, Combustible materials, Organic materials, Metals, Reducing materials, Hydrocarbons materials, Alcohols, Ether. Contact with Magnesium, galvanized Zinc, Tin, Chromium, Brass and Bronze generates explosive Hydrogen.
HAZARDOUS PRODUCTS OF ................. May include and are not limited to: Hydrogen chloride, Chlorine gas, Sodium dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS | LC50 | LD50
Sodium Hypochlorite | Inhalation, Rat: > 10.5 mg/kg | Oral: 8,200 mg/kg; Oral Mice: 5800 mg/kg;
| | Dermal Rat: >2000 mg/kg; Dermal Rabbit: >10,000 mg/kg |
Sodium Hydroxide | Not established | Oral Rat: 2400mg/kg Dermal Rabbit: >2000mg/kg |

ROUTE OF EXPOSURE.......................... Eyes, skin, respiratory system and digestive system.

POTENTIAL EFFECTS ON HUMANS
Eye contact.................................... Causes severe eye damage.
Skin contact................................... Causes skin irritation.
Inhalation..................................... Harmful if inhaled. May cause respiratory tract irritation or chemical burns.
Ingestion..................................... Harmful if swallowed. May cause severe irritation and corrosive damage to mouth, throat and stomach.

CHRONIC EFFECTS ON HUMANS.............. Safe handling of this material on a long term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures.
SENSITIZATION............................. No information available. May cause an allergic skin reaction (e.g. hives, rash) in some hypersensitive individuals. No information available to indicate product or components may be respiratory sensitizers.
TARGET ORGANS............................. Contains material which may cause damage to the following organs: upper respiratory tract, skin, eye, lens of cornea and stomach.

CARCINOGENICITY............................ No evidence of carcinogenic effects.
Carcinogen classification code
ACGIH........ A4 - Not classifiable as a human carcinogen (Sodium Hypochlorite). 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.
IARC........... 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium Hypochlorite).

MUTAGENICITY............................... No information available.
REPRODUCTIVE EFFECTS................... No information available.
TERATOGENICITY............................. No information available.
SPECIFIC TARGET ORGANS TOXICITY - Single exposure
SPECIFIC TARGET ORGANS TOXICITY - Repeated exposure
ASPIRATION HAZARD.......................... Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath, Spasm, Inflammation and Edema of the Larynx, Inflammation and Edema of the bronchi and Pneumonary edema. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.

SYNERGISTIC MATERIALS..................... No information available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA, Sodium Hypochlorite: Acute 96Hrs LC50 Rainbow trout: 0.030 - 0.070 mg/L.
Acute 48Hrs LC50 Daphnia magna: 0.032 - 0.036 mg/L.

ECOTOXICITY DATA, Sodium Hydroxide: Acute 96Hrs LC50 fish Guppy Poecilia reticulata: 196 mg/L.
Chronic 96Hrs NOEC fish Guppy Poecilia reticulata: 56 mg/L.

MOBILITY IN SOIL............................ No information available.
BIODEGRADABILITY.......................... No information available.
SECTION 12: ECOLOGICAL INFORMATION

BIOACCUMULATION................................. No information available.
OTHER ADVERSE EFFECTS...................... Very toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL................................. The disposal of the product must be made in an approved sanitary landfill or in a foundry in accordance with state, provincial and/or federal regulations.

SECTION 14: TRANSPORT INFORMATION

Domestic Substances list, DSL..................... All components of this product are either on the Domestic Substances List, the Non Domestic Substances List or exempt.
Divulgence list of ingredients..................... CAS: 7681-52-9 Sodium Hypochlorite, 1%.
TDG CLASSIFICATION.............................. Not regulated.
DOT US: Department of Transport US............. Not regulated.
IATA: International Air Transportation .......... Not regulated.

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION.......................... This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this document contains all the information required by the Controlled Products Regulations. Class E: Corrosive Material. Class D-2B: Toxic material Causing other toxic effects.

SECTION 16: OTHER INFORMATION

F0000-0115/0117/0167/0168
DISCLAIMER:........................................... The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. Lavo Inc. expressly disclaims all expressed or implied warranties for the accuracy or completeness of the data contained herein and assumes no responsibilities for any involved damages by above data. Product’s users have to do their own tests to establish the applicability of the information for a specific use of the product. MSDS data does not apply to use with any other product or in any other process.
PREPARED BY: ........................................ Regulatory Affairs
PREPARATION DATE............................... AUG 25/2015