# Section 1 - Identification

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>MARVEL Brushless Pressure Washer Cleaner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>1460</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Alkaline cleaner.</td>
</tr>
<tr>
<td>Recommended restrictions</td>
<td>For commercial and industrial use only.</td>
</tr>
</tbody>
</table>

**Manufacturer / Importer / Supplier / Distributor Information**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>National Chemical Laboratories of PA, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>401 N. 10th Street - Philadelphia, PA 19123</td>
</tr>
<tr>
<td>Telephone</td>
<td>1 (215) 922-1200</td>
</tr>
<tr>
<td>Supplier Email</td>
<td><a href="mailto:info@nclonline.com">info@nclonline.com</a></td>
</tr>
<tr>
<td>Contact</td>
<td>CHEM-TEL</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>1 (800) 255-3924</td>
</tr>
</tbody>
</table>

# Section 2 - Hazard(s) Identification

**SDS Hazards and Warnings are based on the undiluted product. Refer to diluted SDS for Ready-To-Use Hazards and Warnings.**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Hazards</td>
<td>Not Classified</td>
</tr>
<tr>
<td>Health Hazards</td>
<td>1</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>1</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>1</td>
</tr>
</tbody>
</table>

**OSHA defined hazards**

| Not Classified. |

**Label Elements**

<table>
<thead>
<tr>
<th>Hazard Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Danger</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazard Statement</th>
<th>Causes severe skin burns and eye damage.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Precautionary statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevention</td>
</tr>
<tr>
<td>If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Store locked up.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal</td>
</tr>
<tr>
<td>Dispose of contents/container in accordance with local/regional/national/international regulations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard(s) not otherwise classified (HNOC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified.</td>
</tr>
</tbody>
</table>

# Section 3 - Composition/Information on ingredients

**Mixture**

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide</td>
<td>2-(2-Butoxyethoxy) Ethanol</td>
<td>112-34-5</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

**Composition Comments**

Components not listed are either non-hazardous or are below reportable limits.

# Section 4 - First-aid Measures

**Inhalation**

If respiratory irritation or distress occurs, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing stops, apply artificial respiration. CONSULT A PHYSICIAN.

**Skin contact**

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention. Wash contaminated clothing before reuse.

**Eye contact**

Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Check and remove contact lenses. Continue to rinse for at least 10 minutes.
Ingestion
Rinse mouth thoroughly with water. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration. Call a physician or poison control center immediately.

Most Important symptoms /effects, acute and delayed
Causes skin and eye burns.

Indication of immediate medical attention and special treatment
Treat symptomatically.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 - Fire-fighting measures

Suitable extinguishing media
This product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Not available.

Specific hazards arising from the chemical
None known.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment /instructions
Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures.
Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.

Methods and materials for containment and cleaning up
Small Spills: Absorb spillage with suitable absorbent material.
Large Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

Section 7 - Handling and storage

Precautions for safe handling
Do not get in eyes, on skin, or on clothing. Do not breathe mist or vapor. Do not taste or swallow. Use with adequate ventilation. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS.

Conditions for safe storage, including any incompatibilities
Store away from incompatible materials. Keep container closed.

Section 8 - Exposure control/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide (CAS 1310-73-2)</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)</td>
<td>TWA</td>
<td>10 ppm</td>
<td>Inhalable fraction and vapor.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines
Use personal protective equipment as required. Keep working clothes separately.

Appropriate engineering controls
Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection
If use of product risks exposure to contact, wear safety glasses with side shields.

Skin protection
Impervious gloves are recommended for prolonged use.

Hand protection

Other
If use of product risk exposure to contact, wear suitable protective clothing.

Respiratory protection
Use a respirator when local exhaust or ventilation is not adequate to keep exposures below the OEL. In a confined space a supplied respirator may be required.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
SAFETY DATA SHEET

Section 9 - Physical and chemical properties

Appearance
- Physical state: Liquid.
- Form: Clear, thin liquid.
- Color: Colorless.
- Odor: None.
- Odor threshold: Not available.
- pH: 13.4
- Melting point/freezing point: Not available.
- Initial boiling point and boiling range: 212 °F (100 °C)
- Flash point: > 212.0 °F (> 100.0 °C)
- Evaporation rate: Not available.
- Flammability (solid, gas): Not applicable.

Upper/lower flammability or explosive limits
- Flammability limit - lower (%): Not available.
- Flammability limit - upper (%): Not available.
- Explosive limit - lower (%): Not available.
- Explosive limit - upper (%): Not available.

Partition Coefficient n-octanol/water: Not available

Auto-ignition temperature: Not Available

Decomposition temperature: Not Available

Viscosity: < 20 cP

Viscosity Temperature: 75 °F (23.9 °C)

Solubilities (water): 100 % Soluble.

Relative density: 1.05 ± 0.01

Vapor pressure: Similar to water.

Vapor density: Similar to water.

Relative density temperature: 75 °F (23.9 °C)

Section 10 - Stability and reactivity

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable at normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Contact with incompatible materials.

Incompatible materials: Acids, flammable liquids, organic halogen compounds, nitro compounds, and amphoteric metals, such as aluminum, magnesium and zinc.

Hazardous Decomposition Products: None.

Section 11 - Toxicological information

Information on likely routes of exposure
- Ingestion: May be harmful if swallowed.
- Inhalation: May cause burns in mucous membranes, throat, esophagus and stomach.
- Skin contact: Causes skin burns.
- Eye contact: Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics: Causes skin and eye burns.

Information on toxicological effects.

Acute toxicity: May be harmful if swallowed.

<table>
<thead>
<tr>
<th>Components</th>
<th>Level</th>
<th>Type</th>
<th>Code</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)</td>
<td>Acute</td>
<td>Dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td>2764 mg/kg, (Male)</td>
</tr>
<tr>
<td>Sodium Hydroxide (CAS 1310-73-2)</td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rabbit</td>
<td>500 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin burns.

Serious eye damage/ eye irritation: Causes serious eye damage.

Respiratory sensitization: Not classified.

Skin sensitization: Not available.
SAFETY DATA SHEET

Germ cell mutagenicity  Not classified.
Carcinogenicity  Not classified.
Reproductive toxicity  Not classified.
Specific target organ toxicity - single exposure  Not classified.
Specific target organ toxicity - repeated exposure  Not classified.
Aspiration hazard  Not classified.

Section 12 - Ecological Information

Ecotoxicity  The product contains a substance which is toxic to aquatic organisms.
Persistence and degradability  The product is expected to be biodegradable.
Bioaccumulative potential
  Partition coefficient n-octanol / water log (Kow)  Results
  Components  Components
  2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)  0.56
Mobility in soil  Not available.
Mobility in general  The product is water soluble and may spread in water systems.
Other adverse effects  None known.

Section 13 - Disposal considerations

Disposal instructions  Dispose in accordance with applicable federal, state, and local regulations.
Local disposal regulations  Dispose of in accordance with local regulations.
Hazardous waste code  Waste codes should be assigned by the user based on the application for which the product was used.
Waste from residues / unused products  Dispose in accordance with all applicable regulations.
Contaminated packaging  Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport information

DOT
  UN number  UN1824
  Proper shipping name  SODIUM HYDROXIDE SOLUTION
  Transport hazard class(es)  8
  Packing group  II
  Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.
  Special provisions  B2, IB2, N34, T7, TP2
  Packaging exemption  154
  Packaging non bulk  202
  Packaging bulk  242

IATA
  UN number  UN1824
  UN proper shipping name  SODIUM HYDROXIDE SOLUTION
  Transport hazard class(es)  8
  Packaging group  II
  Environmental hazards  No.
  ERG Code  8L
  Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.
  Other Information

IMDG
  UN number  UN1824
  UN proper shipping name  SODIUM HYDROXIDE SOLUTION
  Transport hazard class(es)  8
  Packaging group  II
  Environmental hazards  No.
  Marine pollutant  No.
  EmS  F-A, S-B
  Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.
### Section 15 - Regulatory Information

**US federal regulations**

- This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- CERCLA Hazardous Substance List (40 CFR 302.4)
  - Components
    - Sodium Hydroxide (CAS 1310-73-2): LISTED
    - 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5): LISTED
- Superfund Amendments and Reauthorization Act of 1986 (SARA)
  - Hazard Categories
    - Immediate Hazard: Yes
    - Delayed Hazard: No
    - Fire Hazard: No
    - Pressure Hazard: No
    - Reactivity Hazard: No
  - SARA 302 Extremely hazardous substance: No
  - SARA 311/312 Hazardous chemical: Yes
- SARA 313 (TRI reporting)
  - Chemical name: 2-(2-Butoxyethoxy) Ethanol
    - CAS #: 112-34-5
    - % by wt.: 1 - 5

**Other federal regulations**

- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List
  - Components
    - 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.
- Food and Drug Administration (FDA): Not regulated.

**US state regulations**

- US. Massachusetts RTK - Substance List
  - Components
    - Sodium Hydroxide (CAS 1310-73-2)
    - 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)
- US. New Jersey Worker and Community Right-to-Know Act
  - Components
    - Sodium Hydroxide (CAS 1310-73-2)
    - 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)
- US. Pennsylvania RTK - Hazardous Substances
  - Components
    - Sodium Hydroxide (CAS 1310-73-2)
    - 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)
- US. Rhode Island RTK
  - Components
    - Sodium Hydroxide (CAS 1310-73-2)
    - 2-(2-Butoxyethoxy) Ethanol (CAS 112-34-5)
- US - California Proposition 65
  - Components
    - This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory Name</th>
<th>On Inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances</td>
<td>Yes</td>
</tr>
<tr>
<td>United States Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).
The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer’s control, it is the user’s responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product’s improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.