NATIONAL CHEMICAL LABORATORIES, INC.

SAFETY DATA SHEET

Section 1 - Identification

Product Identifier
CONKLEEN 204 Heavy Duty Concrete Cleaner

Other means of identification
0560

Recommended use
Alkaline cleaner.

Recommended restrictions
For commercial and industrial use only.

Manufacturer / Importer / Supplier / Distributor Information

Company Name
National Chemical Laboratories of PA, Inc.

Address
401 N. 10th Street - Philadelphia, PA 19123

Telephone
1 (215) 922-1200

Supplier Email
info@nclonline.com

Contact
CHEM-TEL

Emergency Phone
1 (800) 255-3924

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.

Classification
Category

Physical Hazards
Not Classified

Health Hazards
Serious eye damage/eye irritation 1
Skin corrosion/irritation 1
Specific target organ toxicity, single exposure 3
TARGET ORGAN: respiratory tract irritation

OSHA defined hazards
Not Classified.

Label Elements

Hazard Symbol

Signal Word
Danger

Hazard Statement
Causes severe skin burns and eye damage. May cause respiratory irritation.

Precautionary statement

Prevention
Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Response
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. 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/doctor.

Storage
Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
None known.

Section 3 - Composition/Information on ingredients

Mixture

Hazardous Components

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Sodium dimethylbenzenesulfonate</td>
<td>1300-72-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated</td>
<td>9016-45-9</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

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.
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Skin contact
Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists. 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
Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.

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.

General fire hazards
This product is not flammable or combustible.

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 SPILLAGE: Absorb spillage with suitable absorbent material. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. After removal flush contaminated area thoroughly with water.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td></td>
<td>TWA</td>
<td></td>
</tr>
<tr>
<td>Sodium Hydroxide (CAS 1310-73-2)</td>
<td></td>
<td>TWA</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</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>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>24 mg/m³, 5 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
<th>Determinate</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>200 mg/g</td>
<td>Butoxyacetic acid (BAA), with hydrolysis</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
</tbody>
</table>

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

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONKLEEN 204 Heavy Duty Concrete Cleaner</td>
<td>0560</td>
</tr>
</tbody>
</table>
## Section 9 - Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Green</td>
</tr>
<tr>
<td>Odor</td>
<td>Citrus</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>13.5</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>212 °F (100 °C)</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 212.0 °F (&gt; 100.0 °C)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Similar to water</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Similar to water</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.05 ± 0.01</td>
</tr>
<tr>
<td>Relative density temperature</td>
<td>75 °F (23.9 °C)</td>
</tr>
<tr>
<td>Solubilities (water)</td>
<td>100 % Soluble</td>
</tr>
<tr>
<td>Partition Coefficient n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&lt; 10 cP</td>
</tr>
</tbody>
</table>
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Viscosity Temperature 75 °F (23.9 °C)

**Section 10 - Stability and reactivity**

Reactivity Not available.
Chemical stability Stable at normal conditions.
Possibility of hazardous reactions Hazardous polymerization does not occur.
Conditions to Avoid Contact with incompatible materials.
Incompatible materials Strong oxidizing agents.
Hazardous Decomposition Carbon monoxide. Carbon dioxide.

**Section 11 - Toxicological information**

Information on likely routes of exposure
- **Ingestion**: May cause burns of the gastrointestinal tract if swallowed.
- **Inhalation**: Irritating to respiratory system.
- **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. Causes respiratory tract irritation. Symptoms may be delayed.

Information on toxicological effects.

**Acute toxicity**
- 2-Butoxyethanol (CAS 111-76-2)
  - Acute Dermal LD50 Rabbit 400 mg/kg
  - Acute Inhalation LC50 Mouse 700 ppm, 7 hours
  - Acute Inhalation LC50 Rat 450 mg/l, 4 hrs
  - Acute Oral LD50 Guinea pig 1.2 g/kg
  - Acute Oral LD50 Mouse 1519 mg/kg
  - Acute Oral LD50 Rabbit 0.32 g/kg
  - Acute Oral LD50 Rat 560 mg/kg

- Nonylphenol, ethoxylated (CAS 9016-45-9)
  - Acute Oral LD50 Mouse 4290 mg/kg, bw

- Sodium dimethylbenzenesulfonate (CAS 1300-72-7)
  - Acute Dermal LD50 Rabbit >2000 mg/kg
  - Acute Oral LD50 Rat 7200 mg/kg

- Sodium Hydroxide (CAS 1310-73-2)
  - Acute Oral LD50 Rabbit 500 mg/kg

Skin corrosion/irritation Causes skin burns.
Serious eye damage/eye irritation Causes serious eye damage.
Respiratory sensitization Not classified.
Skin sensitization Not classified.
Germ cell mutagenicity Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity
Component 2-Butoxyethanol (CAS 111-76-2) Result 3 Comment Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Not classified.
Specific target organ toxicity - single exposure Irritating to respiratory system.
Specific target organ toxicity - repeated exposure Not classified.
Aspiration hazard Not classified.
Chronic effects 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

**Section 12 - Ecological Information**

Ecotoxicity The product contains a substance which is toxic to aquatic organisms.

Component(s) Nonylphenol, ethoxylated, 9016-45-9

Aquatic

<table>
<thead>
<tr>
<th>Level</th>
<th>Type</th>
<th>Code</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia magna</td>
<td>65 mg/l, 48 hours</td>
</tr>
</tbody>
</table>
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2-Butoxyethanol, 111-76-2

Aquatic
Persistence and degradability
The product is expected to be biodegradable.

Bioaccumulative potential
Not known.

Partition coefficient n-octanol / water log (Kow)
Components
2-Butoxyethanol (CAS 111-76-2)
0.83

Aquatic
Acute
LC50
Water flea (Daphnia magna)
12.2 mg/l, 48 hours

Fish
LC50
Bluegill (lepisomus macrochirus)
1 - 1.8 mg/l, 96 hours

Fish
LC50
inland silverside (Menidia beryllina)
1250 mg/l, 96 hours

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 13 - Disposal considerations

Section 14 - Transport information

DOT
UN number
UN1824

Proper shipping name
SODIUM HYDROXIDE SOLUTION

Transport hazard class(es)
Packing group
Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Special provisions
B2, IB2, N34, T7, TP2

Packaging exemption
Packaging non bulk
Packaging bulk
154
202
242

IATA
UN number
UN1824

Transport hazard class(es)
Packing group
Environmental hazards
ERG Code
8
II
No.
8L

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

Other Information

IMDG
UN number
UN1824

Transport hazard class(es)
Packing group
Environmental hazards
Marine pollutant
EmS
8
II
No.
F-A, S-B

Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.

This substance/mixture is not intended to be transported in bulk.

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.

TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)
Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)
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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: Not listed.
SARA 311/312 Hazardous chemical: Yes
SARA 313 (TRI reporting): Not regulated.

Other federal regulations
- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List: Not regulated.
- Food and Drug Administration (FDA): Not regulated.

US state regulations
- US.Massachusetts RTK - Substance List:
  - Sodium Hydroxide (CAS 1310-73-2)
  - 2-Butoxyethanol (CAS 111-76-2)
- US.New Jersey Worker and Community Right-to-Know Act:
  - Sodium Hydroxide (CAS 1310-73-2)
  - 2-Butoxyethanol (CAS 111-76-2)
- US.Pennsylvania RTK - Hazardous Substances:
  - Sodium Hydroxide (CAS 1310-73-2)
  - 2-Butoxyethanol (CAS 111-76-2)
- US.Rhode Island RTK:
  - Sodium Hydroxide (CAS 1310-73-2)
  - 2-Butoxyethanol (CAS 111-76-2)
- US - California Proposition 65:
  - California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): 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>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</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 (IECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</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>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</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</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</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).

Components
- Sodium Hydroxide (CAS 1310-73-2) - LISTED
- 2-Butoxyethanol (CAS 111-76-2) - LISTED

Chemical name | CAS # | % by wt.
--- | --- | ---
2-Butoxyethanol | 111-76-2 | 5 - 10

Disclaimer
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.

Section 16 - Other information, including date of preparation or last version

Revision date: 1/17/2018
Version #: 02

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