SAFETY DATA SHEET

Section 1 - Identification

Product Identifier
HURRICANE Intensive Stone Cleaner

Other means of identification
2510

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.

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

Precautionary statement
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. Continue rinsing. Immediately call a poison center/doctor.

Prevention
Do not handle unless work in a well-ventilated area. Store locked up.

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

Signal Word
Danger

OSHA defined hazards
Not Classified.

Hazard Symbol

Category
Not Classified

Physical Hazards

Health Hazards
Serious eye damage/eye irritation
Skin corrosion/irritation
Specific target organ toxicity, single exposure

Classification

1
1
3

TARGET ORGAN: respiratory tract irritation

Section 3 - Composition/Information on ingredients

Mixture

Hazardous Components

Ingredient Name
2-Butoxyethanol
Sodium Silicate
Sodium dimethylbenzenesulfonate
Sodium dodecylbenzenesulfonate
Sodium Hydroxide
Nonylphenol, ethoxylated

CAS #
111-76-2
1344-09-8
1300-72-7
25155-30-0
1310-73-2
9016-45-9

% 
5 - 10
1 - 5
1 - 5
1 - 5
1 - 5
1 - 5

Section 4 - First-aid Measures

HURRICANE Intensive Stone Cleaner 2510
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 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

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>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>240 mg/m³, 50 ppm</td>
</tr>
<tr>
<td>Sodium Hydroxide (CAS 1310-73-2)</td>
<td>TWA</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Sodium Hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m³</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>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>24 mg/m³, 5 ppm</td>
</tr>
<tr>
<td>Sodium Hydroxide (CAS 1310-73-2)</td>
<td>Ceiling</td>
<td>2 mg/m³</td>
</tr>
</tbody>
</table>

US. ACGIH BELs. Biological Exposure Indices

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinate</th>
<th>Specimen</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>
</tr>
</tbody>
</table>

Sampling Time: * - For sampling details, please see the source document.

Exposure guidelines: Use personal protective equipment as required. Keep working clothes separately.
SAFETY DATA SHEET

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.

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.

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
Hand protection
Impervious gloves are recommended for prolonged use.

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.

Section 9 - Physical and chemical properties

Appearance
Clear.

Physical state
Liquid.

Form
Liquid.

Color
Red.

Odor
Citrus.

Odor threshold
Not available.

pH
13.3

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 available.

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.

Vapor pressure
Similar to water.

Vapor density
Similar to water.

Relative density
1.03 ± 0.01

Relative density temperature
75 °F (23.9 °C)

Solubilities (water)
100 % Soluble.

Partition Coefficient
n-octanol/water
Not available.
SAFETY DATA SHEET

Auto-ignition temperature Not Available
Decomposition temperature Not Available
Viscosity < 10 cP
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 Products Carbon monoxide. Carbon dioxide.

Section 11 - Toxicological information

Information on likely routes of exposure
Inhalation May cause burns of the gastrointestinal tract if swallowed.
Skin contact Irritating to respiratory system.
Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects.
Acute toxicity May cause burns.

<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-Butoxyethanol (CAS 111-76-2)</td>
<td>Acute</td>
<td>Dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td>400 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Inhalation</td>
<td>LC50</td>
<td>Mouse</td>
<td>700 ppm, 7 hours</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Inhalation</td>
<td>LC50</td>
<td>Rat</td>
<td>450 mg/l, 4 hrs</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Guinea pig</td>
<td>1.2 g/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Mouse</td>
<td>1519 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rabbit</td>
<td>0.32 g/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rat</td>
<td>560 mg/kg</td>
</tr>
<tr>
<td>Nonylphenol, ethoxylated (CAS 9016-45-9)</td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Mouse</td>
<td>4290 mg/kg, bw</td>
</tr>
<tr>
<td>Sodium dimethylbenzenesulfonate (CAS 1300-72-7)</td>
<td>Acute</td>
<td>Dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>Sodium Hydroxide (CAS 1310-73-2)</td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rabbit</td>
<td>7200 mg/kg</td>
</tr>
<tr>
<td>Sodium Silicate (CAS 1344-09-8)</td>
<td>Acute</td>
<td>Dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt;4640 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rat</td>
<td>1.1 g/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 classified.
Germ cell mutagenicity Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>3</td>
<td>Not classifiable as to carcinogenicity to humans.</td>
</tr>
</tbody>
</table>

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.
SAFETY DATA SHEET

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

Aquatic

Persistence and degradability
The product is expected to be biodegradable.

Bioaccumulative potential
Not known.

Partition coefficient n-octanol / water log (Kow)

<table>
<thead>
<tr>
<th>Components</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>0.83</td>
</tr>
<tr>
<td>Sodium dodecylbenzenesulfonate (CAS 25155-30-0)</td>
<td>0.45</td>
</tr>
</tbody>
</table>

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 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.

EmS
F-A, S-B

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

Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code

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.

CERCLA Hazardous Substance List (40 CFR 302.4)

Components Result
Sodium Hydroxide (CAS 1310-73-2) LISTED
Sodium dodecylbenzenesulfonate (CAS 25155-30-0) LISTED
2-Butoxyethanol (CAS 111-76-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories
Immediate Hazard No
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)


CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

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

CERCLA Hazardous Substance List (40 CFR 302.4)

Components Result
Sodium Hydroxide (CAS 1310-73-2) LISTED
Sodium dodecylbenzenesulfonate (CAS 25155-30-0) LISTED
2-Butoxyethanol (CAS 111-76-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories
Immediate Hazard No
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)

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

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HSPs) List Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.
Safe Drinking Water Act (SDWA) Not regulated.
Food and Drug Administration (FDA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List Components
2-Butoxyethanol (CAS 111-76-2)
Sodium Hydroxide (CAS 1310-73-2)
Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

US. New Jersey Worker and Community Right-to-Know Act Components
2-Butoxyethanol (CAS 111-76-2)
Sodium Hydroxide (CAS 1310-73-2)
Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

US. Pennsylvania RTK - Hazardous Substances Components
2-Butoxyethanol (CAS 111-76-2)
Sodium Hydroxide (CAS 1310-73-2)
Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

US. Rhode Island RTK Components
2-Butoxyethanol (CAS 111-76-2)
Sodium Hydroxide (CAS 1310-73-2)
Sodium dodecylbenzenesulfonate (CAS 25155-30-0)

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 (NDSSL)</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>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 Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>
Section 16 - Other information, including date of preparation or last version

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

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