Section 1 - Identification

Product Identifier: BOLT Ultra Concentrated No-Rinse Speed Stripper
Other means of identification: 1069
Recommended use: Floor stripper.
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.

Physical Hazards: Not Classified
Health Hazards: 4 Acute toxicity, dermal
Health Hazards: 4 Acute toxicity, inhalation
Health Hazards: 4 Acute toxicity, oral
Health Hazards: 1 Serious eye damage/eye irritation
Health Hazards: 1 Skin corrosion/irritation
Health Hazards: 3 Specific target organ toxicity, single exposure

OSHA defined hazards: Not Classified.

Label Elements
Hazard Symbol: 

Signal Word: Danger
Hazard Statement: Causes severe skin burns and eye damage. Harmful if swallowed, in contact with skin or if inhaled. May cause respiratory irritation.
Precautionary statement
Prevention: Do not breathe mist or vapor. Use only in well-ventilated areas. Wear protective gloves/clothing and eye/face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children.
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. 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.
Storage: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC): Not classified.

Section 3 - Composition/Information on ingredients

Mixture
Hazardous Components
Ingredient Name: 2-Butoxyethanol
CAS #: 111-76-2
Percentage: 60 - 80%
Ingredient Name: 2-Amino Ethanol
CAS #: 141-43-5
Percentage: 15 - 25%

Section 4 - First-aid Measures
SAFETY DATA SHEET

Inhalation
Move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.

Skin contact
Remove contaminated clothing and shoes. Immediately flush skin with plenty of water. Get prompt 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. Get medical attention immediately.

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. May cause respiratory tract irritation. Symptoms may be delayed.

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. Immediate medical attention is required. In case of shortness of breath, give oxygen. Keep victim warm.

Section 5 - Fire-fighting measures

Suitable extinguishing media
Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
None known.

Special protective equipment and precautions for firefighters
Wear suitable protective equipment. 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
Contain spill. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Flush area 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. Keep container closed. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS.

Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials. Keep container closed. Keep out of reach of children.

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>2-Amino Ethanol (CAS 141-43-5)</td>
<td>TWA</td>
<td>6 mg/m³, 3 ppm</td>
<td></td>
</tr>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>240 mg/m³, 50 ppm</td>
<td></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-Amino Ethanol (CAS 141-43-5)</td>
<td>STEL</td>
<td>6 ppm</td>
</tr>
<tr>
<td>2-Amino Ethanol (CAS 141-43-5)</td>
<td>TWA</td>
<td>3 ppm</td>
</tr>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>20 ppm</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-Amino Ethanol (CAS 141-43-5)</td>
<td>STEL</td>
<td>15 mg/m³, 6 ppm</td>
</tr>
<tr>
<td>2-Amino Ethanol (CAS 141-43-5)</td>
<td>TWA</td>
<td>8 mg/m³, 3 ppm</td>
</tr>
<tr>
<td>2-Butoxyethanol (CAS 111-76-2)</td>
<td>TWA</td>
<td>24 mg/m³, 5 ppm</td>
</tr>
</tbody>
</table>

US. ACGIH. BEIs. Biological Exposure Indices

<table>
<thead>
<tr>
<th>Components</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>

* - For sampling details, please see the source document.
SAFETY DATA SHEET

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

US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants
Components
2-Butoxyethanol (CAS 111-76-2)
Exposure
Can be absorbed though the skin.

US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).
Components
2-Butoxyethanol (CAS 111-76-2)
Skin designation applies.

US. NIOSH: Pocket Guide to Chemical Hazards
Components
2-Butoxyethanol (CAS 111-76-2)
Exposure
Can be absorbed though the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100)
Components
2-Butoxyethanol (CAS 111-76-2)
Exposure
Can be absorbed though the skin.

US. OSHA Table Z-1-A (29 CFR 1910.100)
Components
2-Butoxyethanol (CAS 111-76-2)
Exposure
Can be absorbed though the skin.

US. Tennessee. OELs Occupational Exposure Limit, Table Z1A
Components
2-Butoxyethanol (CAS 111-76-2)
Exposure
Can be absorbed though the skin.

Appropriate engineering controls
Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. 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
Hand protection
Impervious gloves are recommended for prolonged use.

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

Respiratory protection
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

Section 9 - Physical and chemical properties

Appearance
Clear.

Physical state
Liquid.

Form
Liquid.

Color
Pale Straw.

Odor
Sassafras.

Odor threshold
Not available.

pH
12.8

Melting point/freezing point
Not available.

Initial boiling point and boiling range
212 °F (100 °C)

Flash point
>201°F (94°C) TCC

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
0.95 ± 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: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability: Stable at normal conditions. Can form peroxides on prolonged exposure to air and light.
Possibility of hazardous reactions: Hazardous polymerization does not occur.
Conditions to Avoid: Keep away from heat and direct sunlight. Contact with incompatible materials.

Section 11 - Toxicological information

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

Information on toxicological effects:
Acute toxicity: Harmful if inhaled, absorbed through skin, or 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-Amino Ethanol (CAS 141-43-5)</td>
<td>Acute</td>
<td>Dermal</td>
<td>LD50</td>
<td>Rabbit</td>
<td>1025 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td>Oral</td>
<td>LD50</td>
<td>Rat</td>
<td>1715 mg/kg</td>
</tr>
<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>
</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:
Component | Result | Comment |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></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: This product is not expected to cause reproductive or developmental effects.
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 is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability: The product is expected to be biodegradable.
Bioaccumulative potential: Not known.
Partition coefficient n-octanol / water log (Kow) Components Results
SAFETY DATA SHEET

2-Amino Ethanol (CAS 141-43-5) -1.31
2-Butoxyethanol (CAS 111-76-2) 0.83

Mobility in soil
No data 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 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 UN2491
Proper shipping name Ethanolamine solution
Transport hazard class(es) 8
Subsidiary class(es) -
Packing group III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Labels required 8
Special provisions IB3, T4, TP1
Packaging exemption 154
Packaging non bulk 203
Packaging bulk 241

IATA
UN number UN2491
UN proper shipping name Ethanolamine solution
Transport hazard class(es) 8
Subsidiary class(es) -
Packing group III
Environmental hazards No
Labels required Not available.
ERG Code 8L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other Information

IMDG
UN number UN2491
UN proper shipping name ETHANOLAMINE SOLUTION
Transport hazard class(es) 8
Subsidiary class(es) -
Packing group III
Environmental hazards No.
Marine pollutant
Labels required Not available.
EmS F-A, S-B
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
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.

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

CERCLA Hazardous Substance List (40 CFR 302.4)
Components Result
2-Butoxyethanol (CAS 111-76-2) LISTED
SAFETY DATA SHEET

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)

Chemical name       CAS #   % by wt.
2-Butoxyethanol      111-76-2  60 -80

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.
- Food and Drug Administration (FDA): Not regulated.

US state regulations
- US. Massachusetts RTK - Substance List
  Components
  2-Amino Ethanol (CAS 141-43-5)
  2-Butoxyethanol (CAS 111-76-2)

- US. New Jersey Worker and Community Right-to-Know Act
  Components
  2-Amino Ethanol (CAS 141-43-5)
  2-Butoxyethanol (CAS 111-76-2)

- US. Pennsylvania RTK - Hazardous Substances
  Components
  2-Amino Ethanol (CAS 141-43-5)
  2-Butoxyethanol (CAS 111-76-2)

- US. Rhode Island RTK
  Components
  2-Amino Ethanol (CAS 141-43-5)
  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

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

*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).

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

Revision date 1/17/2018
Version # 02
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.