SAFETY DATA SHEET

Section 1 - Identification

Product Identifier: TP #2 Spray & Wipe Cleaner Super Concentrate
Other means of identification: 4002
Recommended use: Alkaline detergent.
Recommended restrictions: For commercial and industrial use only.

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

OSHA defined hazards: Not Classified.

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></td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>1</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>1</td>
</tr>
<tr>
<td>OSHA defined hazards</td>
<td>Not Classified</td>
</tr>
</tbody>
</table>

Signal Word: Danger
Hazard Statement: Causes severe skin burns and eye damage.
Precautionary statement:
Prevention: Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
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. 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. Wash contaminated clothing before reuse.
Storage: Store locked up.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene Glycol Monomethyl Ether</td>
<td></td>
<td>34590-94-8</td>
<td>40-60</td>
</tr>
<tr>
<td>2-Amino Ethanol</td>
<td></td>
<td>141-43-5</td>
<td>20-30</td>
</tr>
</tbody>
</table>

Section 4 - First-aid Measures

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low.
SAFETY DATA SHEET

Section 5 - Fire-fighting measures

Suitable extinguishing media
Powder. Alcohol resistant foam. Carbon dioxide (CO2).

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

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.

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.

General fire hazards
No unusual fire or explosion hazards noted.

Specific Methods
Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures.
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spills cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
This product is miscible in water.

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

Section 7 - Handling and storage

Precautions for safe handling
Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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-Amino Ethanol (CAS 141-43-5)</td>
<td>TWA</td>
<td>6 mg/m³ , 3 ppm</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>TWA</td>
<td>600 mg/m³ , 100ppm</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>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>STEL</td>
<td>150 ppm</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<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>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>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>TWA</td>
<td>600 mg/m³ , 100ppm</td>
</tr>
<tr>
<td>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>STEL</td>
<td>900 mg/m³, 150 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)</td>
<td>Can be absorbed through the skin.</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Section 9 - Physical and chemical properties

Appearance
- Physical state: Liquid.
- Form: Thin, clear liquid
- Color: Yellow.

Odor: Pleasant (Sienna™)

Odor threshold: Not available.

pH: 12.4

Melting point/freezing point: Not available.

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

Flash point: None to boiling.

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.

Vapor pressure: Similar to water.

Vapor density: Similar to water.

Relative density: 1.01 ± 0.01

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

Solubilities (water): Completely soluble.

Partition Coefficient n-octanol/water: Not available

Auto-ignition temperature: Not Available

Decomposition temperature: Not Available

Viscosity: < 10 cSt

Viscosity Temperature: 75 °F (23.9 °C)

Section 10 - Stability and reactivity

Reactivity: Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
SAFETY DATA SHEET

Conditions to Avoid
Do not mix with other chemicals. Contact with incompatible materials.

Incompatible materials

Hazardous Decomposition Products
No hazardous decomposition products are known.

Section 11 - Toxicological information

Information on likely routes of exposure

- Ingestion: Causes digestive tract burns. Harmful if swallowed.
- Inhalation: May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
- Skin contact: Causes severe skin burns. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.
- Eye contact: Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Burns pain and severe corrosive skin damage. Headache. Dizziness. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

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-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>
</tbody>
</table>

Skin corrosion/irritation
Causes severe skin burns and eye damage.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory sensitization
Not a respiratory sensitizer.

Skin sensitization
This product is not expected to cause skin sensitization.

Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
Not classified.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not an aspiration hazard.

Chronic effects
May be harmful if absorbed through skin. Prolonged inhalation may be harmful. 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 and which may cause long-term adverse effects in the aquatic environment.

Component(s)
2-Amino Ethanol, 141-43-5

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>Algae</td>
<td>EC50</td>
<td>Selenastrum capricornutum (new name Pseudokirchneriella subca</td>
<td>2.5 mg/l, 48 hours</td>
</tr>
<tr>
<td></td>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia magna</td>
<td>65 mg/l, 48 hours</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
<td>Goldfish (Carassius auratus)</td>
<td>170 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
<td>Cyprinus carpio</td>
<td>349 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential

- Partition coefficient n-octanol / water log (Kow)

<table>
<thead>
<tr>
<th>Components</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Amino Ethanol (CAS 141-43-5)</td>
<td>-1.31</td>
</tr>
</tbody>
</table>

Mobility in soil
No data available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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: 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): -
- Packaging 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.

**IMDG**
- UN number: UN2491
- UN proper shipping name: ETHANOLAMINE SOLUTION
- Transport hazard class(es): 8
- Subsidiary class(es): -
- Packaging group: III
- Environmental hazards: No
- Marine pollutant: No
- 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: 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.
- All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)**: Not regulated.
**CERCLA Hazardous Substance List (40 CFR 302.4)**: Not 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**: 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.
- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**: Not regulated.
SAFETY DATA SHEET

US state regulations

US.Massachusetts RTK - Substance List
Components
2-Amino Ethanol (CAS 141-43-5)
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

US.New Jersey Worker and Community Right-to-Know Act
Components
2-Amino Ethanol (CAS 141-43-5)
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

US.Pennsylvania RTK - Hazardous Substances
Components
2-Amino Ethanol (CAS 141-43-5)
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

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

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>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 (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>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>No</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>Unites 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).

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.