SAFETY DATA SHEET

Section 1 - Identification

Product Identifier: TP #2 Spray & Wipe Cleaner Super Concentrate RTU (1-32)
Other means of identification: 4002 (1-32)
Recommended use: Alkaline detergent.
Recommended restrictions: For commercial and industrial use only. User prepared Ready-To-Use solution. 1:32 in water.

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

Physical Hazards
Health Hazards
OSHA defined hazards
Label Elements
Hazard Symbol: None.
Signal Word: Warning
Hazard Statement: Causes eye irritation. Causes mild skin irritation.
Precautionary statement
Prevention
Response
Storage
Disposal
Hazard(s) not otherwise classified (HNOC): None known.

Section 3 - Composition/Information on ingredients

Mixture
Hazardous Components
Ingredient Name
Dipropylene Glycol Monomethyl Ether
2-Amino Ethanol
CAS #
34590-94-8
141-43-5
% 1 - 2
0.1 - 1
Composition Comments: Components not listed are either non-hazardous or are below reportable limits.

Section 4 - First-aid Measures

Inhalation
Skin contact
Wash skin with soap and water. Get medical attention if irritation develops and persists.
Eye contact
Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion
Rinse mouth. Get medical attention if irritation develops and persists.
Most Important symptoms /effects, acute and delayed
Causes eye irritation. Symptoms may include stinging, tearing, redness. Prolonged skin contact may cause irritation. May cause redness and irritation.
Indication of immediate medical attention and special treatment
Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
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Section 5 - Fire-fighting measures

Suitable extinguishing media
RTU product will not support combustion. 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
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
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
This product is miscible in water.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Nefer return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

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)

Components
2-Amino Ethanol (CAS 141-43-5)
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

Type
TWA
TWA

Value
6 mg/m³, 3 ppm
600 mg/m³, 100ppm

US. ACGIH Threshold Limit Values

Component
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)
2-Amino Ethanol (CAS 141-43-5)

Type
TWA
STEL
TWA

Value
600 mg/m³, 100ppm
150 ppm
100 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components
2-Amino Ethanol (CAS 141-43-5)
2-Amino Ethanol (CAS 141-43-5)
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

Type
STEL
TWA
TWA

Value
15 mg/m³, 6 ppm
8 mg/m³, 3 ppm
600 mg/m³, 100ppm

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

Components
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

Exposure
Can be absorbed through the skin.

US. NIOSH: Pocket Guide to Chemical Hazards

Component
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

Exposure
Can be absorbed through the skin.

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

Components
Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8)

Exposure
Can be absorbed through the skin.
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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
In case of insufficient ventilation, wear suitable respiratory equipment.

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
In case of insufficient ventilation, wear suitable respiratory equipment.

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
Physical state
Liquid.
Form
Thin, clear liquid
Color
Pale Yellow.
Odor
Pleasant (Sienna™)
Odor threshold
Not available.
pH
11.0 ± 0.3
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
1.00 ± 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
The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability
Material is stable under normal conditions.
Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.
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

Ingestion
Expected to be a low ingestion hazard.
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Inhalation
Prolonged inhalation may cause irritation to the respiratory system.

Skin contact
Skin contact may cause mild irritation. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

Eye contact
Direct contact with eyes causes irritation.

Symptoms related to the physical, chemical and toxicological characteristics
Direct contact with eyes causes irritation. Prolonged contact may cause skin irritation. May cause redness and irritation.

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
Prolonged skin contact may cause irritation.

Serious eye damage/eye irritation
Direct contact with eyes causes irritation.

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 RTU 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. 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>Total code</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</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>Daphnia magna</td>
<td>65 mg/l, 48 hours</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>Goldfish (Carassius auratus)</td>
<td>170 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td>Fish</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

<table>
<thead>
<tr>
<th>Partition coefficient n-octanol / water log (Kow)</th>
<th>Components</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<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
General Information
This product is customer diluted for on site use only. No transportation information is anticipated or provided. The regulatory transport classification of the product without consideration to dilution strength, packaging, quantity, or modal restrictions and exceptions cannot be anticipated. It is the user’s responsibility to determine the appropriate packaging and modal requirements and/or limitations for the product quantity being shipped.

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) Not listed.

- Reactivity Hazard: No
- Pressure Hazard: No
- Fire Hazard: No
- Immediate Hazard: Yes

US state regulations

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

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

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

- 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>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).

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.