SAFETY DATA SHEET

**Section 1 - Identification**

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>RUFF N’ READY Spray and Wipe Degreaser Cleaner (Qt,)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>1071</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Cleaner degreaser RTU.</td>
</tr>
<tr>
<td>Recommended restrictions</td>
<td>For commercial and industrial use only.</td>
</tr>
</tbody>
</table>

**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                    | Serious eye damage/eye irritation                     |
| OSHA defined hazards              | Not Classified.                                      |

**Label Elements**

| Hazard Symbol                     | !                                                                 |
| Signal Word                       | Warning                                               |
| Hazard Statement                  | Causes serious eye irritation.                        |
| Precautionary statement          | Wash thoroughly after handling. Wear eye/face protection. |
| Prevention                        | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Response                          | Store away from incompatible materials.               |
| Storage                           | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Disposal                          | Not classified.                                       |

**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></td>
<td>Alcohols, C12-13 Ethoxylated</td>
<td></td>
<td>Mixture 1 - 5</td>
</tr>
</tbody>
</table>

**Composition Comments**

* mixture of ethoxylates, each is below threshold of reportable limit.

**Section 4 - First-aid Measures**

**Inhalation**

Move to fresh air. Get medical attention if irritation persists.

**Skin contact**

Remove contaminated clothing and shoes. Wash skin with soap and water. Get medical attention if irritation persists.

**Eye contact**

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists.

**Ingestion**

Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions. Get medical attention if any discomfort continues.

**Most Important symptoms/effects, acute and delayed**

Symptoms include itching, burning, redness, and tearing of eyes.

**Indication of immediate medical attention and special treatment**

Treat symptomatically.
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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
This material will not burn. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
None known.

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. Cool material exposed to heat with water spray and remove it if no risk is involved.

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
Avoid contact with eyes. 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.

Section 8 - Exposure control/personal protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit values
No biological exposure limits noted for the ingredient(s).

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

Appropriate engineering controls
Should be handled in closed systems, if possible. Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. 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
Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

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
Green.

Odor
Sassafras.

Odor threshold
Not available.

pH
11

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 1.01 ± 0.01
Relative density temperature 75 °F (23.9 °C)
Solubilities (water) 100 % Soluble.
Partition Coefficient n-octanol/water Not available.
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.
Possibility of hazardous reactions Hazardous polymerization does not occur.
Conditions to Avoid Contact with incompatible materials.
Incompatible materials Strong oxidizing agents. Water reactive materials.
Hazardous Decomposition Products None known

Section 11 - Toxicological information

Information on likely routes of exposure
Ingestion May be harmful if swallowed.
Inhalation Vapors and mist may irritate throat and respiratory system and cause coughing.
Skin contact Prolonged or repeated contact may dry skin and cause irritation.
Eye contact Causes eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics
Symptoms include itching, burning, redness, and tearing of eyes.

Information on toxicological effects.
Acute toxicity May be harmful if swallowed.
Skin corrosion/irritation May cause skin irritation on prolonged or repeated contact.
Serious eye damage/ eye irritation Causes eye irritation.
Respiratory sensitization Not classified.
Skin sensitization Not a skin sensitizer.
Germ cell mutagenicity Not classified.
Carcinogenicity Not classified.
Reproductive toxicity Not classified.
Specific target organ toxicity - single exposure Not classified.
Specific target organ toxicity - repeated exposure Not classified.
Aspiration hazard Not classified.
Chronic effects Prolonged or repeated contact may dry skin and cause irritation.
Further information No other specific acute or chronic health impact noted.

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)
Alcohols, C12-13 Ethoxylated, 66455-14-9

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>Water flea (Daphnia magna)</td>
<td>0.39 -0.56 mg/l, 48 hours</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
<td>Flathead minnow (Pimephales promelas)</td>
<td>0.72 -2.7 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability The product is expected to be biodegradable.
Bioaccumulative potential Potential to bioaccumulate is low.
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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
Not regulated.

### 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
Not regulated as dangerous goods.

### IATA
Not regulated as dangerous goods.

### IMDG
Not regulated as dangerous goods.

### 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)** 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**: No
  - **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.
- **Safe Drinking Water Act (SDWA)** Not regulated.
- **Food and Drug Administration (FDA)** Not regulated.

### US state regulations
- **US.Massachusetts RTK - Substance List**: Not regulated.
- **US.New Jersey Worker and Community Right-to-Know Act**: Not listed.
- **US.Pennsylvania RTK - Hazardous Substances**: Not listed.
- **US.Rhode Island RTK**: Not regulated.
- **US - California Proposition 65**: This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

### 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 (NDSL)</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>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).
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.