SAFETY DATA SHEET

Section 1 - Identification

Product Identifier: DUAL-BLEND #7 Heavy Duty Spray Cleaner / Degreaser
Other means of identification: 5077
Recommended use: Detergent.
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: Serious eye damage/eye irritation
- OSHA defined hazards: Not Classified

Hazard Symbol

Signal Word: Danger
Hazard Statement: Causes serious eye damage.
Precautionary statement
- Prevention: Wear eye/face protection.
- Response: 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 hands after handling.
- Storage: Store away from incompatible materials.
- Disposal: Dispose of waste and residuals in accordance with local authority requirements.
- Hazard(s) not otherwise classified (HNOC): None known.

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>Alcohols, C9-11, ethoxylated</td>
<td></td>
<td>68439-46-3</td>
<td>10 - 20</td>
</tr>
</tbody>
</table>

Section 4 - First-aid Measures

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Move to fresh air. Get medical attention if irritation persists.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Wash off with soap and water. Get medical attention if irritation persists.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Immediately 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 persists.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Rinse mouth. Get medical attention if irritation persists.</td>
</tr>
<tr>
<td>Most Important symptoms/effects, acute and delayed</td>
<td>Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.</td>
</tr>
<tr>
<td>Indication of immediate medical attention and special treatment</td>
<td>Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.</td>
</tr>
</tbody>
</table>
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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
Water fog. Foam. Dry chemical powder. 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
Use standard firefighting procedures and consider the hazards of other involved materials.

Specific Methods
No unusual fire or explosion hazards noted.

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. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

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

SMALL SPILLAGE: Absorb spillage with suitable absorbent material. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

LARGE SPILLS: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.

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

Precautions for safe handling
Do not get this material in contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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

Section 7 - Handling and storage

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

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

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

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
Weart 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 8 - Exposure control/personal protection

Appearance
Clear, thin liquid.

Physical state
Liquid.

Form
Liquid.

Color
Purple.

Odor
Pleasant.

Odor threshold
Not available.

pH
11.2

Melting point/freezing point
Not relevant.

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

Section 9 - Physical and chemical properties
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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): Completely Soluble
Partition Coefficient: n-octanol/water: Not available
Auto-ignition temperature: Not Available
Decomposition temperature: Not Available
Viscosity: <20 cSt
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: Material is stable under normal conditions.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to Avoid: Contact with incompatible materials.
Incompatible materials: Strong oxidizing agents.
Hazardous Decomposition Products: No hazardous decomposition products are known.

Section 11 - Toxicological Information

Information on likely routes of exposure:
- Ingestion: Expected to be a low ingestion hazard.
- Inhalation: No adverse effects due to inhalation are expected.
- Skin contact: No adverse effects due to skin contact are expected.
- Eye contact: Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics:
Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects:
Acute toxicity:
- Not expected to be acutely toxic.

Components
<table>
<thead>
<tr>
<th>Alcohol, C9-11, ethoxylated (CAS 68439-46-3)</th>
<th>Acute</th>
<th>Dermal</th>
<th>LD50</th>
<th>Rabbit</th>
<th>&gt; 2 g/kg</th>
</tr>
</thead>
</table>

Skin corrosion/irritation:
Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation:
Causes serious eye damage.
Respiratory sensitization:
This product is not expected to cause respiratory sensitization.
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 available.
Chronic effects:
Prolonged inhalation may be harmful.

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.
## Component(s)
Alcohols, C9-11, ethoxylated, 68439-46-3

### 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>2.9 - 8.5 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
<td>6 - 12 mg/l, 96 hours</td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Flathead minnow (Pimephales promelas)</td>
<td>0.619 - 0.796 mg/l, 96 hours</td>
<td></td>
</tr>
</tbody>
</table>

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

Bioaccumulative potential
No data available.

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** 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. 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)**

<table>
<thead>
<tr>
<th>Hazard Categories</th>
<th>Immediate Hazard</th>
<th>Delayed Hazard</th>
<th>Fire Hazard</th>
<th>Pressure Hazard</th>
<th>Reactivity Hazard</th>
<th>SARA 302 Extremely hazardous substance</th>
<th>SARA 311/312 Hazardous chemical</th>
<th>SARA 313 (TRI reporting)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Not listed</td>
<td>Yes</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

**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**
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 (AIC5)</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>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Location</th>
<th>Inventory Description</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<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>United States</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).

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

<table>
<thead>
<tr>
<th>Revision date</th>
<th>1/17/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version #</td>
<td>02</td>
</tr>
<tr>
<td>Disclaimer</td>
<td>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.</td>
</tr>
</tbody>
</table>

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DUAL-BLEND #7 Heavy Duty Spray Cleaner / Degreaser 5077