CITRUS PLUS II CLEANER/DEGREASER  
Product number: S-16707-B  

SAFETY DATA SHEET

1. Identification  
Product identifier          CITRUS PLUS II CLEANER/DEGREASER  
Other means of identification  
  Product number          S-16707-B  
  Recommended use          Cleaner/Degreaser  
  Recommended restrictions   None known.  
Manufacturer/Importer/Supplier/Distributor information  
  Manufacturer            PEN Products  
  Address                 Indiana Department of Correction  
                          2010 East New York Street  
                          Indianapolis, IN 46201  
                          United States  
  Telephone               317 955-6800  
                          800 736-2550  
  Emergency phone number  CHEMTREC 1-800-424-9300

2. Hazard(s) identification  
Physical hazards     Not classified.  
Health hazards        Acute toxicity, oral          Not classified  
                      Acute toxicity, dermal          Not classified  
                      Skin corrosion/irritation          Category 1C  
                      Serious eye damage/eye irritation          Category 1  
                      Sensitization, skin          Category 1  
OSHA defined hazards      Not classified.  
Label elements

Signal word        Danger  
Hazard statement    Causes severe skin burns and eye damage. May cause an allergic skin reaction.  
Prevention          Wear safety glasses with side shields (or goggles). Wear protective gloves. Wash hands thoroughly after handling.  
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. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Storage             Store locked up. Store away from incompatible materials. Keep out of the reach of children.  
Disposal            Dispose of waste and residues in accordance with local authority requirements.  
Hazard(s) not otherwise classified (HNOC)      None known.  
Supplemental information   None known.
3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonylphenol Ethoxylate</td>
<td>9016-45-9</td>
<td>5 - &lt;10</td>
</tr>
<tr>
<td>Tetrapotassium Pyrophosphate</td>
<td>7320-34-5</td>
<td>5 - &lt;10</td>
</tr>
<tr>
<td>Ethanolamine</td>
<td>141-43-5</td>
<td>1 - &lt;5</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>6834-92-0</td>
<td>1 - &lt;5</td>
</tr>
<tr>
<td>d-Limonene (Terpene Hydrocarbon)</td>
<td>5989-27-5</td>
<td>0.1 - &lt;1</td>
</tr>
</tbody>
</table>

4. First-aid measures

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.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn’t get into the lungs.

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Notes to physician: Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance, if not at hospital. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

Most important symptoms/effects, acute and delayed: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures


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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. 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. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: Large Spills: Stop the flow of material, if this is without risk. 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.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling: Do not breathe mist or vapor. Do not get this material in contact with skin. Do not get this material in contact with eyes. Avoid prolonged exposure. Do not get this material on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
CITRUS PLUS II CLEANER/DEGREASER
Product number: S-16707-B

Conditions for safe storage, including any incompatibilities
Store locked up. Keep container tightly closed. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanolamine (CAS 141-43-5)</td>
<td>STEL</td>
<td>6 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>3 ppm</td>
</tr>
</tbody>
</table>

Control parameters

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>Ethanolamine (CAS 141-43-5)</td>
<td>PEL</td>
<td>6 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

- **Eye/face protection**: Wear safety glasses with side shields (or goggles) and a face shield.
- **Skin protection**: Wear appropriate chemical resistant gloves.
- **Respiratory protection**: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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.

9. Physical and chemical properties

- **Appearance**: clear
- **Form**: Liquid.
- **Color**: blue green
- **Odor**: citrus
- **Odor threshold**: Not available.
- **pH**: 12 - 12.5
- **Melting point/freezing point**: 32 °F (0 °C)
- **Boiling point**: 212 °F (100 °C)
- **Flash point**: None to boiling.
- **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.

Vapor pressure: Not available.

Vapor density: Not available.

Solubility(ies)

- **Solubility (water)**: 100 %
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not available.
Specific gravity 1.14
VOC (Weight %) 3.5%

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 Hazardous polymerization does not occur.
Conditions to avoid This product may react with oxidizing agents. Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials Acids. Oxidizing agents.
Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

Toxicological data

<table>
<thead>
<tr>
<th>Product</th>
<th>Test Results</th>
</tr>
</thead>
</table>
| CITRUS PLUS II CLEANER/DEGREASER (Mixture) | Acute Dermal LD50 Rabbit: > 5000 mg/kg  
Acute Oral LD50 Rat: > 5000 mg/kg |

Information on likely routes of exposure

- **Eye contact**: Causes serious eye damage.
- **Skin contact**: Causes severe skin burns. May cause an allergic skin reaction.
  - Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.
- **Ingestion**: Causes digestive tract burns.
- **Inhalation**: Prolonged inhalation may be harmful. May cause irritation to the respiratory system.
- **Symptoms related to the physical, chemical and toxicological characteristics**: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.
- **Carcinogenicity**: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

- d-Limonene (Terpene Hydrocarbon) (CAS 5989-27-5) 3 Not classifiable as to carcinogenicity to humans.
- US. OSHA Specifically Regulated Substances (29 CFR 1910.101-1050)  
  - Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.
Chronic effects Prolonged inhalation may be harmful. May be harmful if absorbed through skin.
  - Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

Toxicological information Occupational exposure to the substance or mixture may cause adverse effects.

12. Ecological information

Ecotoxicity Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
CITRUS PLUS II CLEANER/DEGREASER
Product number: S-16707-B

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

Bioaccumulative potential
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.

13. Disposal considerations

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT
UN number UN2491
UN proper shipping name Ethanolamine or Ethanolamine solutions
Transport hazard class(es)
Class 8
Subsidiary risk -
Label(s) 8
Packing group III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions IB3, T4, TP1
Packaging exceptions 154
Packaging non bulk 203
Packaging bulk 241

IATA
UN number UN2491
UN proper shipping name Ethanolamine
Transport hazard class(es)
Class 8
Subsidiary risk - III
Packing group No.
Environmental hazards 8L
ERG Code
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo aircraft Allowed.
Cargo aircraft only Allowed.

IMDG
UN number UN2491
UN proper shipping name ETHANOLAMINE or ETHANOLAMINE SOLUTION
Transport hazard class(es)
Class 8
Subsidiary risk -
Packing group III
Environmental hazards Marine pollutant No.
CITRUS PLUS II CLEANER/DEGREASER
Product number: S-16707-B

EmS
F-A, S-B
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

DOT

IATA; IMDG

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 CFR 707, Subpt. D)
Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA (Superfund) reportable quantity
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
No
SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act  Not regulated. 
(SDWA)

US state regulations
US. Massachusetts RTK - Substance List
   Ethanolamine (CAS 141-43-5)
US. New Jersey Worker and Community Right-to-Know Act
   Not regulated.
US. Pennsylvania RTK - Hazardous Substances
   Ethanolamine (CAS 141-43-5)
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>
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<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
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<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
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<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
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<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
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<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
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<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
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<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
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<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
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<td>New Zealand</td>
<td>New Zealand Inventory</td>
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<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
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<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
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</tbody>
</table>

*A “Yes” indicates that all components of this product comply 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).

16. Other information, including date of preparation or last revision

<table>
<thead>
<tr>
<th>Issue date</th>
<th>05-26-2015</th>
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<tbody>
<tr>
<td>Version #</td>
<td>01</td>
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<tr>
<td>Disclaimer</td>
<td>The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.</td>
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<table>
<thead>
<tr>
<th>HMIS Hazard Ratings</th>
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</thead>
<tbody>
<tr>
<td>Health:</td>
<td>1</td>
</tr>
<tr>
<td>Flammability:</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>0</td>
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</table>