1. Product and Company Identification

Product identifier: Phase III Acid Test Kit (S) (4320S)
(Added in conjunction with Phase III Refrigeration Oil Test Reagent (L)(4320L)

Other means of identification: Not available

Recommended use: Acid test kit

Recommended restrictions: None known.

Manufacturer information: Nu-Calgon
2611 Schuetz Road
St. Louis, MO 63043 US
Phone: 314-469-7000 / 800-554-5499
Emergency Phone: 1-800-424-9300 (CHEMTREC)

Supplier: See above.

2. Hazards Identification

Physical hazards: Not classified.

Health hazards: Not classified.

Environmental hazards: Not classified.

WHMIS 2015 defined hazards: Not classified

Label elements
- Hazard symbol: None.
- Signal word: None.
- Hazard statement: The mixture does not meet the criteria for classification.

Precautionary statement
- Prevention: Observe good industrial hygiene practices.
- Response: Wash hands after handling.
- Storage: Store away from incompatible materials.
- Disposal: Dispose of waste and residues in accordance with local authority requirements.

WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC) None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC) None known

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information: Not applicable.

3. Composition/Information on Ingredients

Mixture
Composition comments: Non-hazardous by WHMIS/OSHA criteria

4. First Aid Measures

Inhalation: If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Skin contact: Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Eye contact: Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Ingestion: Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.

Most important symptoms/effects, acute and delayed: Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed
General information

Treat patient symptomatically.

Avoid contact with eyes and skin. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Keep out of reach of children. Show this safety data sheet to the doctor in attendance. If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

- **Suitable extinguishing media**: Treat for surrounding material.
- **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 so without risk.
- **Specific methods**: Use standard firefighting procedures and consider the hazards of other involved materials.
- **General fire hazards**: No unusual fire or explosion hazards noted.
- **Hazardous combustion products**: May include and are not limited to: Hydrogen chloride.

6. Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**: Keep out of low areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
- **Methods and materials for containment and cleaning up**: Large Spills: 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. Prevent entry into waterways, sewer, basements or confined areas. 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.
- **Environmental precautions**: Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

- **Precautions for safe handling**: Avoid contact with eyes, skin and clothing. When using, do not eat, drink or smoke. Use good industrial hygiene practices in handling this material. Keep out of reach of children. Store in a closed container away from incompatible materials.
- **Conditions for safe storage, including any incompatibilities**: Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

- **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.
- **Individual protection measures, such as personal protective equipment**
  - **Eye/face protection**: Wear safety glasses with side shields.
  - **Skin protection**: Follow standard industrial hygiene practices. Impervious gloves. Confirm with reputable supplier first.
  - **Hand protection**: Wear suitable protective clothing.
  - **Other**: No personal respiratory protective equipment normally required.
  - **Respiratory protection**: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA’s respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI’s standard for respiratory protection (Z88.2).
Thermal hazards: Not applicable.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>10.9 (Concentrate)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.9048</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Complete</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Bulk density</td>
<td>7.54 lb/gal</td>
</tr>
</tbody>
</table>

### 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>This product may react with strong oxidizing agents.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No dangerous reaction known under conditions of normal use.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>Material is stable under normal conditions.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Avoid temperatures exceeding the flash point. Contact with incompatible materials.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Strong oxidizing agents.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>May include and are not limited to: Hydrogen chloride.</td>
</tr>
</tbody>
</table>

### 11. Toxicological Information

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>May cause stomach distress, nausea or vomiting.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No adverse effects due to inhalation are expected.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No adverse effects due to skin contact are expected.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
</tbody>
</table>
Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity
Skin corrosion/irritation
Exposure minutes
Erythema value
Oedema value
Serious eye damage/eye irritation
Corneal opacity value
Iris lesion value
Conjunctival reddening value
Conjunctival oedema value
Recover days
Respiratory or skin sensitization
Respiratory sensitization
Skin sensitization
Mutagenicity
Carcinogenicity
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Reproductive toxicity
Teratogenicity
Specific target organ toxicity - single exposure
Specific target organ toxicity - repeated exposure
Aspiration hazard
Chronic effects

12. Ecological Information

Ecotoxicity
Persistence and degradability
Bioaccumulative potential
Mobility in soil
Mobility in general
Other adverse effects

13. Disposal Considerations

Disposal instructions
Local disposal regulations
Hazardous waste code
Waste from residues / unused products
Contaminated packaging

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification
# Regulatory Information

## Canadian federal regulations
This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**Export Control List (CEPA 1999, Schedule 3)**
- Not listed.

**Greenhouse Gases**
- Not listed.

**Precursor Control Regulations**
- Not regulated.

**WHMIS 2015 Exemptions**
- Not applicable

**US federal regulations**
- This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- All chemicals used are on the TSCA inventory.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
- Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**
- Not listed.

- Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

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

**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.

**US state regulations**
- **US. Massachusetts RTK - Substance List**
  - Not regulated.
- **US. New Jersey Worker and Community Right-to-Know Act**
  - Not regulated.
- **US. Pennsylvania Worker and Community Right-to-Know Law**
  - Not listed.
- **US. Rhode Island RTK**
  - Not regulated.
- **US. California Proposition 65**
  - Not Listed.

**Inventory status**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<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>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)*
16. Other Information

<table>
<thead>
<tr>
<th>LEGEND</th>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date 12-August-2019
Version # 02
Effective date 16-August-2019
Prepared by Nu-Calgon Technical Service  Phone: (314) 469-7000