Section 1. Identification

Product Identifier
KOCHKLEEN® 100

General Use
Cleaning Agent

Manufacturer/Importer/Supplier/Distributor Information

Company Name
John R Hess & Company, Inc.

Address
400 Station St
Cranston, RI 02910
USA

Telephone
(401) 785-9300 (800) 556-4377

E-mail
custerv@jrhess.com

Emergency Phone Numbers
Chemtrec 1-800-424-9300 (Spill, Leak, Fire, Exposure, Accident)
AE&S +1 (207) 233-9735 (Outside USA & Canada)

Section 2 Hazards Identification

Classification of the substance or mixture:

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR §1910.1200).

Health hazards
Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1

Environmental hazards
Percentage of the mixture consisting of ingredient(s) of unknown toxicity 30%

GHS Label Elements
Globally Harmonized System (GHS) Classification and Labeling GHS

Signal Word: DANGER

Hazard Statements:

Causes severe skin burns and eye damage

Precautionary Statements

Prevention

Wear protective gloves, protective clothing, eye/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.

Response

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately, call a poison center or physician.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Immediately call a poison center or physician.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with all local/regional/national/international regulations.

Hazards not otherwise classified (HNOC)

Causes severe digestive tract burns.

Supplemental Information

Do not taste or swallow. Wash thoroughly after handling.

Section 3. Composition / Information on Ingredients

Substance/mixture Mixture
Other means of identification Not available
CAS number/Other identifiers
CAS number Not applicable
Product code 5705

Hazardous

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Other names</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric Acid</td>
<td>Nitric Acid</td>
<td>10-30</td>
<td>7697-37-2</td>
</tr>
<tr>
<td>Phosphoric Acid</td>
<td>Orthophosphoric Acid</td>
<td>10-30</td>
<td>7664-38-2</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.
Section 4. First Aid Measures

General Advice

**Immediate medical attention is required.**

**Inhalation**
Move to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin Contact**
Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye Contact**
Flush eyes immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses if present and easy to do so. Continue rinsing. Chemical burns must be treated promptly by a physician.

**Ingestion**
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects:

- **Eye contact**
  - Causes serious eye damage.
- **Skin contact**
  - Causes severe burns.
- **Inhalation**
  - No known significant effects or critical hazards
- **Ingestion**
  - Severely corrosive to the digestive tract. Causes severe burns.

Over-exposure signs/symptoms:

- **Eye contact**
  - Adverse symptoms may include the following:
    - Pain
    - Watering
    - Redness

- **Skin contact**
  - Adverse symptoms may include the following:
    - Pain or irritation
    - Redness
### Inhalaion
No specific data

### Ingestion
Adverse symptoms may include the following:
- Stomach pains

#### Indication of immediate medical attention and special treatment needed

<table>
<thead>
<tr>
<th>Notes to physician</th>
<th>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific treatments</td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>

#### Protection of first-aiders
No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting Measures

<table>
<thead>
<tr>
<th>Suitable Extinguishing Media</th>
<th>Use an extinguishing agent suitable for the surrounding fire.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable Extinguishing Media</td>
<td>Do not use water jet.</td>
</tr>
</tbody>
</table>

#### Specific Hazards Arising from the Chemical

<table>
<thead>
<tr>
<th>Hazardous thermal decomposition products</th>
<th>In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: nitrogen oxides phosphorus oxides</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special protective actions for fire-fighters</td>
<td>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training</td>
</tr>
</tbody>
</table>

#### Special protective equipment for fire-fighters
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Remark**
This material will not burn or burns with difficulty.

### Section 6. Accidental Release Measures

#### Personal precautions protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
<th>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</th>
</tr>
</thead>
</table>

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For emergency responders
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental Precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods & Materials for Containment and Cleaning Up
Large spills: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Small spills: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Precautions for Safe Handling
Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general hygiene
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Controls / Personal Protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric acid</td>
<td>ACGIH TLV (United States, 4/2014). TWA: 2 ppm 8 hours. TWA: 5.2 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</td>
</tr>
</tbody>
</table>
TWA: 5 mg/m³ 8 hours.
STEL: 4 ppm 15 minutes.
STEL: 10 mg/m³ 15 minutes.

**NIOSH REL (United States, 10/2013).**
TWA: 2 ppm 10 hours.
TWA: 5 mg/m³ 10 hours.
STEL: 4 ppm 15 minutes.
STEL: 10 mg/m³ 15 minutes.

**OSHA PEL (United States, 2/2013).**
TWA: 2 ppm 8 hours.
TWA: 5 mg/m³ 8 hours.

**Phosphoric acid**

**ACGIH TLV (United States, 4/2014).**
TWA: 1 mg/m³ 8 hours.
STEL: 3 mg/m³ 15 minutes.

**OSHA PEL 1989 (United States, 3/1989).**
TWA: 1 mg/m³ 8 hours.
STEL: 3 mg/m³ 15 minutes.

**NIOSH REL (United States, 10/2013).**
TWA: 1 mg/m³ 10 hours.
STEL: 3 mg/m³ 15 minutes.

**OSHA PEL (United States, 2/2013).**
TWA: 1 mg/m³ 8 hours.

**Appropriate engineering controls**
If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls**
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures, such as personal protective equipment**

**General hygiene considerations**
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection**
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Skin protection:**

**Hand protection**
Chemical-resistant, impervious gloves complying with an approved standard should always be worn when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures,
consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Acidic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>0.75 mg/m³ (Nitric acid)</td>
</tr>
<tr>
<td>pH</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</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>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>1.4</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td></td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>SADT</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

Reactivity
No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability
The product is stable.

Possible of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.
Under normal conditions of storage and use, hazardous polymerization will
Conditions to avoid

No specific data.

Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials and metals. Carbides
Sulfides
Incompatible materials: chlorine releasers.
Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.
Reactive or incompatible with the following materials:
alkalis

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on likely routes of exposure

Inhalation
No known significant effects or critical hazards

Skin contact
Causes severe burns.

Eye contact
Causes serious eye damage.

Ingestion
Severely corrosive to the digestive tract. Causes severe burns.

Symptoms related to the physical, chemical and toxicological characteristics
Symptoms may include eye pain, tearing, redness and swelling, skin irritation or pain, redness and blistering. Ingested may cause stomach pains.

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>2740 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1.25 g/kg</td>
</tr>
<tr>
<td>Irritation/Corrosion</td>
<td></td>
<td>Not available</td>
</tr>
<tr>
<td>Sensitization</td>
<td></td>
<td>Not available</td>
</tr>
</tbody>
</table>
### Mutagenicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Test</th>
<th>Experiment</th>
<th>Test Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>nitric acid</td>
<td>OECD 471 Ames test.</td>
<td>Experiment: In vitro Subject: Bacteria</td>
<td>Negative</td>
</tr>
</tbody>
</table>

### Carcinogenicity
Not available

### Reproductive toxicity
Not available

### Specific target organ toxicity - single exposure
Not available

### Specific target organ toxicity - repeated exposure
Not classified

### Aspiration hazard
Not available

**Delayed, immediate and chronic effects from short and long term exposure**

**Short-term exposure:**

- **Potential immediate effects**
  Not available.

- **Potential delayed effects**
  Not available.

**Long-term exposure:**

- **Potential immediate effects**
  Not available.

- **Potential delayed effects**
  Not available.

- **Potential chronic health effects**
  Not available.

- **General**
  No known significant effects or critical hazards

- **Carcinogenicity**
  No known significant effects or critical hazards

- **Mutagenicity**
  No known significant effects or critical hazards

- **Teratogenicity**
  No known significant effects or critical hazards

- **Developmental effects**
  No known significant effects or critical hazards

- **Fertility effects**
  No known significant effects or critical hazards

**Numerical measures of toxicity**

**Acute toxicity estimates:**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>2916.7 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>6393.3 mg/kg</td>
</tr>
</tbody>
</table>
Section 12. Ecological Information

Toxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric acid</td>
<td>Acute EC50 100 to 1000 mg/l</td>
<td>Algae</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 72 ppm fresh water</td>
<td>Fish - Gambusia affinis - Adult</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 105 ppm fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 60 ppm fresh water</td>
<td>Fish - Lepomis macrochirus</td>
<td>96 hours</td>
</tr>
<tr>
<td>Phosphoric acid</td>
<td>Acute EC50 105 ppm fresh water</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute LC50 60 ppm fresh water</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability:

<table>
<thead>
<tr>
<th>Product</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric acid</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

Bioaccumulation:

<table>
<thead>
<tr>
<th>LogP</th>
<th>Aquatic half-life</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric acid</td>
<td>-0.21</td>
<td>-</td>
<td>Low</td>
</tr>
</tbody>
</table>

Mobility in soil

- Soil/water partition coefficient (K_{oc}) Not available.

Other adverse effects

- No known significant effects or critical hazards.

Section 13. Disposal Considerations

Disposal methods

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14. Transport Information

<table>
<thead>
<tr>
<th>DOT</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>UN3264</td>
<td>UN3264</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>CORROSIVE LIQUID, ACIDIC, INORGANIC N.O.S. (Phosphoric acid, nitric acid) RQ (nitric acid, Phosphoric acid)</td>
<td>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid, nitric acid)</td>
</tr>
</tbody>
</table>

- Transport hazard class(es): 8
- Packing group: I
- Environmental hazards: No
### Additional Information

**Reportable quantity**
3333.3 lbs / 1513.3 kg [285.56 gal / 1081 L]
Package sizes shipped in quantities less than the product quantity are not subject to the RQ (reportable quantity) transportation requirements.

**Limited quantity**
Yes.

**Packaging instruction**

**Passenger aircraft**
Quantity limitation: 0.5 L

**Cargo aircraft**
Quantity limitation: 2.5 L

**Special provisions**
A6, B10, T14, TP2, TP27

**Special precautions for user**
Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code
Not available

### Section 15. Regulatory Information

**US Federal Regulations**

**United States inventory (TSCA 8b):** All components are listed or exempted.

**Clean Water Act (CWA) 311:** Phosphoric acid; nitric acid

**Clean Air Act (CAA) 112 regulated toxic substances:** nitric acid

**Clean Air Act (CAA) Section 112**
Hazardous Air Pollutants (HAPs) List
Not listed

**Clean Air Act (CAA) Section 602**
Class I Substances
Not listed

**Clean Air Act (CAA) Section 602**
Class II Substances
Not listed

**DEA List I Chemicals (Precursor Chemicals)**
Not listed

**DEA List II Chemicals (Essential Chemicals)**
Not listed
### SARA 302/304
Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>EHS</th>
<th>SARA 302 TPQ</th>
<th>SARA 304 RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric Acid</td>
<td>10-30</td>
<td>Yes</td>
<td>1000 (lbs) 85.7 (gallons)</td>
<td>1000 (lbs) 85.7 (gallons)</td>
</tr>
<tr>
<td>Phosphoric Acid</td>
<td>10-30</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA304 RQ 3333.3 lbs / 1513.3 kg [285.6 gal / 1081 L]

### SARA 311/312
Classification Immediate (acute) health hazard

### Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Fire hazard</th>
<th>Sudden release of pressure</th>
<th>Reactive</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric Acid</td>
<td>10-30</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Phosphoric Acid</td>
<td>10-30</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA313

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>nitric acid</td>
<td>7697-37-2</td>
<td>10-30</td>
</tr>
</tbody>
</table>

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### US State Regulations

**US. Massachusetts RTK - Substance List**
- Phosphoric Acid
- Nitric Acid

**US. New York Right-to-Know Act**
- Phosphoric Acid
- Nitric Acid

**US. Pennsylvania Worker and Community Right-to-Know Law**
- Phosphoric Acid
- Nitric Acid

**US. California Proposition 65**
- None of the components are listed

### Section 16. Other Information

Hazardous Material Information System (USA)

- **Health**: 3
- **Flammability**: 0
- **Physical hazards**: 0
Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (NFPA) Ratings

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Prepared By: HSE Department
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Precedes: 10/4/2018
Key to abbreviations
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
UN = United Nations

Reference HCS (U.S.A.)- Hazard Communication Standard
International transport regulations

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