1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**
KOCHKLEEN® WO

**General Use**
INDUSTRIAL CLEANER

**Physical Description**
Liquid

**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)
  +1 (703) 527-3887 (outside USA)

2. HAZARDS IDENTIFICATION

**OSHA Hazards**: Oxidizer, Target organ effect, Toxic by ingestion, Corrosive

**Target Organs**: Eyes, Skin, Respiratory system

**Signal Words**: Danger

**Pictograms**:

![Pictograms]

**GHS Classification**

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxidizing liquids</td>
<td>Category 1</td>
</tr>
<tr>
<td>Acute toxicity, Dermal</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity, Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion</td>
<td>Category 1</td>
</tr>
<tr>
<td>Eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Respiratory sensitizer</td>
<td>Category 1B</td>
</tr>
</tbody>
</table>

**GHS Label Elements**
Hazard Statements:

- H271 May cause fire or explosion; strong oxidizer
- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage
- H333 May be harmful if inhaled
- H402 Harmful to aquatic life

Precautionary Statements:

- P220 Keep/store away from clothing/combustible materials.
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P305+P351+ IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.

Potential Health Effects

- Eyes May cause serious damage.
- Inhalation Irritating to the respiratory system. Causes irritation to the respiratory tract.
- Skin Irritating to skin. Contact causes redness, burns, itching and pain. Prolonged or repeated skin exposure may cause dermatitis.
- Ingestion Causes irritation and pain.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight %</th>
<th>CAS #</th>
<th>EINECS# / ELINCS#</th>
<th>Formula</th>
<th>Molecular Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide</td>
<td>34</td>
<td>7722-84-1</td>
<td>231-765-0</td>
<td>H₂O₂</td>
<td>34.01 g/mol</td>
</tr>
<tr>
<td>Water</td>
<td>Balance</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>H₂O</td>
<td>18.00 g/mol</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

- Eyes In case of eye contact, rinse with plenty of water and seek medical attention
- Inhalation Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Skin Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.
- Ingestion Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIREFIGHTING MEASURES

- Suitable (and unsuitable) extinguishing media Product is not flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use flooding quantities of water to cool containers.
- Special protective equipment and precautions for firefighters Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
- Specific hazards arising from the chemical Product components will burn producing oxygen. (See also Stability and Reactivity section).
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions
Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

Methods and materials for containment and cleaning up
Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling
See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities
Store in cool, dry well ventilated area. Isolate from combustible material. Store in the dark. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure Limits</th>
<th>Basis</th>
<th>Entity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide</td>
<td>1 ppm 1.4 mg/m³</td>
<td>TLV</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>1 ppm 1.4 mg/m³</td>
<td>PEL</td>
<td>OSHA</td>
</tr>
<tr>
<td></td>
<td>1 ppm 1.4 mg/m³</td>
<td>REL</td>
<td>NIOSH</td>
</tr>
</tbody>
</table>

TWA: Time Weighted Average over 8 hours of work.
TLV: Threshold Limit Value over 8 hours of work.
REL: Recommended Exposure Limit
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit during x minutes.
IDLH: Immediately Dangerous to Life or Health
WEEL: Workplace Environmental Exposure Levels
CEIL: Ceiling

Personal Protection:

**Eyes**
Wear chemical safety glasses with a face shield for splash protection.

**Inhalation**
Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.

**Skin**
Wear neoprene or nitrile gloves, apron and other protective clothing appropriate to the risk of exposure.

**Other**
Not Available
Other Recommendations
Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.) Clear, colorless liquid
Odor No Odor
Odor threshold Not Applicable
pH Not Available
Melting point/freezing point Not Available
Initial boiling point and boiling range Not Available
Flash point Not Flammable
Evaporation rate Not Available
Flammability (solid, gas) Not Flammable
Upper/lower flammability or explosive limit Not Explosive
Vapor pressure Not Available
Vapor density Not Available
Relative density Not Available
Solubility (ies) Completely soluble in water
Partition coefficient: n-octanol/water Not Available
Auto-ignition temperature Not Applicable
Decomposition temperature Not Available

10. STABILITY AND REACTIVITY

Chemical Stability Stable
Possibility of Hazardous Reactions Will not occur.
Conditions to Avoid Store out of direct light
Incompatible Materials Brass, Copper, Powdered metals, Iron, Iron and iron salts,
Hazardous Decomposition Products Not Available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Skin LD50 Dermal – rat – 4060 mg/kg
Eyes Not Available
Respiratory LC50 Vapor – rat – 2000 mg/m – 4 hours
Ingestion LD50 Oral – mouse – 2000 mg/kg

Carcinogenicity
IARC 3-Group 3: Not classifiable as to its carcinogenicity to humans (hydrogen peroxide).
ACGIH A3: Confirmed animal carcinogen with unknown relevance to humans.
NTP No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure
Skin Redness, burning, itching and pain.
Eyes Eye burns, pain, watering eyes.
Respiratory Coughing, shortness of breath, burning, choking, coughing, wheezing, laryngitis, headache or nausea.
Ingestion Causes irritation and pain.
12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>Not Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Vertebrate</td>
<td>Not Available</td>
</tr>
<tr>
<td>Aquatic Invertebrate</td>
<td>Not Available</td>
</tr>
<tr>
<td>Terrestrial</td>
<td>Not Available</td>
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<tr>
<td>Persistence and Degradability</td>
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<tr>
<td>Bioaccumulative Potential</td>
<td>Not Available</td>
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<tr>
<td>Mobility in Soil</td>
<td>Not Available</td>
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<tr>
<td>PBT and vPvB Assessment</td>
<td>Not Available</td>
</tr>
<tr>
<td>Other Adverse Effects</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Waste Residues</th>
<th>Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.</td>
</tr>
<tr>
<td>Containers</td>
<td></td>
</tr>
</tbody>
</table>

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

<table>
<thead>
<tr>
<th>US DOT</th>
<th>UN2014, Hydrogen peroxide, aqueous solutions 5.1, (8), pg II</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS 5.1, (8), PG II</td>
</tr>
<tr>
<td>IMDG</td>
<td>UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS 5.1, (8), PG II</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>No</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>UN2014, Hydrogen peroxide, aqueous solutions 5.1, (8), pg II</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>TSCA Inventory Status</th>
<th>All ingredients are listed on the TSCA inventory.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSCL (EEC)</td>
<td>All ingredients are listed on the DSCL inventory.</td>
</tr>
<tr>
<td>California Proposition 65</td>
<td>Not Listed</td>
</tr>
<tr>
<td>SARA 302</td>
<td>Listed: Hydrogen Peroxide</td>
</tr>
<tr>
<td>SARA 304</td>
<td>Listed: Hydrogen Peroxide</td>
</tr>
<tr>
<td>SARA 311</td>
<td>Hydrogen Peroxide</td>
</tr>
<tr>
<td>SARA 312</td>
<td>Hydrogen Peroxide</td>
</tr>
<tr>
<td>SARA 313</td>
<td>Listed: Hydrogen Peroxide</td>
</tr>
<tr>
<td>WHMIS Canada</td>
<td>Class C: Oxidizing Material</td>
</tr>
<tr>
<td></td>
<td>Class D-2B: Toxic Material Causing Other Toxic Effects</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

HMIS Rating

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>3</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Physical hazards</td>
<td>1</td>
</tr>
<tr>
<td>Personal</td>
<td>D</td>
</tr>
</tbody>
</table>

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 (U.S.A.)

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Prepared By:       HSE Department
Issue Date:    6/12/2017
Version:    2
Precedes:       5/4/2015

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