Section 1. Identification

Product Identifier: KOCHTREAT® 250
General Use: Cleaning Agent
Physical Description: Powder

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)

Section 2. Hazards Identification

Hazard classification
This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards
No data available

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propenoic acid, homopolymer, sodium salt</td>
<td>9003-04-7</td>
<td>&gt;= 47.0 - 49.0 %</td>
</tr>
<tr>
<td>Individual residual monomers</td>
<td>Not Required</td>
<td>&lt; 100.0 PPM</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt;= 51.0 - 53.0 %</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

Description of first aid measures
General advice: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.
Skin contact: Wash off with plenty of water.

Eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion: No emergency medical treatment necessary.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed
Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

**Section 5. Fire-Fighting Measures**

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Not applicable

Special hazards arising from the substance or mixture
Hazardous combustion products: No data available

Unusual Fire and Explosion Hazards: Material can splatter above 100C/212F. Dried product can burn.

Advice for firefighters
Fire Fighting Procedures: No data available

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit.

**Section 6. Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.

Environmental precautions: CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods and materials for containment and cleaning up: Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

**Section 7. Handling and Storage**

Precautions for safe handling: Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8, for types of ventilation required.

Conditions for safe storage: Keep from freezing - product stability may be affected. STIR WELL BEFORE
USE.

Storage stability
Storage temperature: 1 - 49 °C (34 - 120 °F)

Section 8. Exposure Controls/Personal Protection
Control parameters
Exposure limits are listed below, if they exist.

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Type of listing</th>
<th>Value/Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>TWA Respirable fraction</td>
<td>0.5 mg/m³</td>
</tr>
</tbody>
</table>

Exposure controls
Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures
Eye/face protection: Use safety glasses (with side shields).
Skin protection
Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Avoid gloves made of: Polyvinyl alcohol ("PVA"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
Other protection: Wear clean, body-covering clothing.
Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Particulate filter.

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>colorless to pale yellow clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>3.2 - 4.0</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>0 °C (32 °F) Water</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point (760 mmHg)</td>
<td>100.00 °C (212.00 °F) Water</td>
</tr>
<tr>
<td>Flash point</td>
<td>Noncombustible</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate= 1)</td>
<td>&lt;1.00 Water</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
Vapor Pressure 17.00 mmHg at 20.00 °C (68.00 °F) Water
Relative Vapor Density (air = 1) <1.0000 Water
Relative Density (water = 1) 1.2000
Water solubility completely soluble
Partition coefficient: n- octanol/water No data available
Auto-ignition temperature Not Applicable
Decomposition temperature >230.00 °C (446.00 °F)
Dynamic Viscosity <500.000 mPa.s
Kinematic Viscosity No data available
Explosive properties No data available
Oxidizing properties No data available
Molecular weight 1,800.00 - 2,300.00 g/mol
Percent volatility 51.00 - 53.00 % Water

NOTE: The physical data presented above are typical values and should not be construed as a specification.

**Section 10. Stability and Reactivity**

Reactivity: No data available

Chemical stability: No data available

Possibility of hazardous reactions: None known. Product will not undergo polymerization. Stable

Conditions to avoid: No data available

Incompatible materials: There are no known materials which are incompatible with this product.

Hazardous decomposition products: Thermal decomposition may yield acrylic monomers.

**Section 11. Toxicological Information**

Toxicological information appears in this section when such data is available.

Acute toxicity

Acute oral toxicity
Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
For similar material(s):
LD50, Rat, male, > 5,000 mg/kg

Acute dermal toxicity
Prolonged skin contact is unlikely to result in absorption of harmful amounts.
For similar material(s):
LD50, Rabbit, male, > 5,000 mg/kg

Acute inhalation toxicity
At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous.
The LC50 has not been determined.

Skin corrosion/irritation
Brief contact is essentially nonirritating to skin.
Prolonged contact may cause slight skin irritation with local redness.

Serious eye damage/eye irritation
May cause slight temporary eye irritation. Corneal injury is unlikely.

Sensitization
For skin sensitization: No relevant data found.

For respiratory sensitization: No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)
Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)
No relevant data found.

Carcinogenicity
No relevant data found.

Teratogenicity
No relevant data found.

Reproductive toxicity
No relevant data found.

Mutagenicity
For similar material(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

Aspiration Hazard
Based on physical properties, not likely to be an aspiration hazard.

COMPONENTS INFLUENCING TOXICOLOGY:
2-Propenoic acid, homopolymer, sodium salt
Acute inhalation toxicity
The LC50 has not been determined.

**Section 12. Ecological Information**

Ecotoxicological information appears in this section when such data is available.

Toxicity
Acute toxicity to fish
For similar material(s):
Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

For similar material(s):
LC50, Lepomis macrochirus (Bluegill sunfish), 96 Hour, > 1,000 mg/l
For similar material(s):
LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, > 1,000 mg/l
Acute toxicity to aquatic invertebrates
For similar material(s):
EC50, Daphnia magna (Water flea), 48 Hour, > 1,000 mg/l

Acute toxicity to algae/aquatic plants
For similar material(s):
EC50, Scenedesmus capricornutum (fresh water algae), 96 Hour, Cell Density, > 10 mg/l

Persistence and degradability
Biodegradability: No appreciable biodegradation is expected.

Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 302B or Equivalent

Bioaccumulative potential
Bioaccumulation: No bioconcentration of the polymeric component is expected because of its high molecular weight.

Mobility in soil
No relevant data found.

Section 13. Disposal Considerations

Disposal methods: For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations.

Section 14. Transport Information

DOT
Not dangerous goods

IATA
Not dangerous goods

IMDG
Not dangerous goods

TDG
Not dangerous goods

Further Information
Not classified as dangerous in the meaning of transport regulations. The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact an Air Products customer service representative.

Section 15. Regulatory Information

OSHA Hazard Communication Standard
This product as supplied is non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200). Under processing conditions it may become OSHA hazardous due to the potential for overexposure to dusts or mists.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312
This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313
This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

Pennsylvania
Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

United States TSCA Inventory (TSCA)
All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Section 16. Other Information

HMIS Rating
Health: 1
Flammability: 0
Physical hazard: 0

Prepared By: HSE Department
Issue Date: 05/24/2017
Version: 2
Precedes: 10/1/2015
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