Section 1: Product & Company Identification

Product Name: K&W® Radiator Stop Leak

Product Number (s): 401211

Manufactured By:
CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information (215) 674-4300
Technical Assistance (800) 521-3168
Customer Service (800) 272-8963
24-Hr Emergency (CHEMTREC) (800) 424-9300

Section 2: Hazards Identification

Emergency Overview
Appearance & Odor: Blue-green viscous liquid, no odor

As defined by OSHA's Hazard Communication Standard, this product is non-hazardous.

Potential Health Effects:

EYE: May cause mild irritation to the eyes.

SKIN: No acute effects expected. However, prolonged contact may cause mild irritation.

INHALATION: No acute effects expected, as this product does not produce vapors. Inhalation of spray mist may be irritating to the respiratory system.

INGESTION: Generally non-toxic if ingested in small amount. May cause vomiting, diarrhea or gastrointestinal discomfort.

CHRONIC EFFECTS: None known

TARGET ORGANS: for copper: liver, kidney and lungs

Medical Conditions Aggravated by Exposure:
Unknown

See Section 11 for toxicology and carcinogenicity information on product ingredients.
Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS NUMBER</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>85 - 95</td>
</tr>
<tr>
<td>Hydrous magnesium aluminum silicate</td>
<td>1302-78-9</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Powdered cellulose</td>
<td>9004-34-6</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>Smectite clay</td>
<td>12199-37-0</td>
<td>&lt; 2</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: If swallowed, DO NOT induce vomiting. Give victim a glass of water. If severe symptoms develop, get medical attention immediately.

Note to Physicians: None

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is nonflammable.

Flash Point: None (TCC)  Upper Explosive Limit: None
Autoignition Temperature: None  Lower Explosive Limit: None

Suitable Extinguishing Media: This material will not burn. Use extinguishing media appropriate for the surrounding fire.

Products of Combustion: NA

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains. This product may be harmful to aquatic life.
Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Avoid contact with eyes, skin and clothing. Keep container closed when not in use. Properly clean any spilled residue with a wet cloth.

Storage Procedures: Store in a cool dry area out of direct sunlight. Store in closed container.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td>Water</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Hydrous magnesium aluminum silicate</td>
<td>5*</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Powdered cellulose</td>
<td>5*</td>
<td>NE</td>
<td>10</td>
</tr>
<tr>
<td>Smectite clay</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated

* Exposure values apply to dust or respirable fraction. These values would not apply to the liquid mixture product. These would only apply to this product if it were dried to a powder or residue.

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid
Color: blue-green
Odor: odorless
Specific Gravity: 1.06
Initial Boiling Point: 212 F
Freezing Point: ND
Vapor Pressure: ND
**Product Name:** K&W® Radiator Stop Leak  
**Product Number (s):** 401211

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**Vapor Density:**  > 1  
**Evaporation Rate:**  < 1  
**Solubility:**  Appreciable  
**pH:**  6.5 – 7.5  
**Volatile Organic Compounds:**  wt %: 0  
**g/L:** 0  
**lbs./gal:** 0

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**Section 10: Stability and Reactivity**

**Stability:**  Stable  
**Conditions to Avoid:**  None  
**Incompatible Materials:**  None known  
**Hazardous Decomposition Products:**  None known  
**Possibility of Hazardous Reactions:**  No

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**Section 11: Toxicological Information**

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

**ACUTE EFFECTS**

<table>
<thead>
<tr>
<th>Component</th>
<th>Test</th>
<th>Result</th>
<th>Route</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrous magnesium aluminum silicate</td>
<td>LD50</td>
<td>&gt; 5000 mg/kg</td>
<td>Oral</td>
<td>Rat</td>
</tr>
<tr>
<td>Cellulose</td>
<td>LC50</td>
<td>&gt;5800 mg/m3/4H</td>
<td>Inhalation</td>
<td>Rat</td>
</tr>
</tbody>
</table>

**CHRONIC EFFECTS**

**Carcinogenicity:**

- **OSHA:** None listed  
- **IARC:** None listed  
- **NTP:** None listed

**Mutagenicity:**  No data

**Other:**  None

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**Section 12: Ecological Information**

Ecological studies have not been conducted for this product. The following information is available for components of this product.

| Ecotoxicity:  | No information available. |
| Persistence / Degradability: | No information available. |
| Bioaccumulation / Accumulation: | No information available. |
| Mobility in Environment: | |
Section 13: Disposal Considerations

Disposal: This material is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33) Wastes should be collected and properly disposed. Do not dump into bodies of water or on the ground.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Not regulated.

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ’s) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories: Fire Hazard No

Reactive Hazard No

Release of Pressure No

Acute Health Hazard No

Chronic Health Hazard No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Consumer Product Safety Act General Conformity Certification: This product was evaluated by CRC Industries, Inc., and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location listed in Section 1 of this MSDS. The date of manufacture is stamped on the
product container. No testing is required to certify compliance with the above

**State Regulations**

**California Safe Drinking Water and Toxic Enforcement Act (Prop 65):**

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: NONE

**State Right to Know:**

New Jersey: None
Pennsylvania: 9004-34-6
Massachusetts: 9004-34-6
Rhode Island: 9004-34-6

**Additional Regulatory Information:** None

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**Section 16: Other Information**

NFPA: Health: 0 Flammability: 0 Reactivity: 0
HMIS: Health: 0 Flammability: 0 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick
CRC #: 906B
Revision Date: 11/10/2008

Changes since last revision: Section 15: CPSA Certification added

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries’ knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
</tr>
<tr>
<td>ppm</td>
<td>Parts per Million</td>
</tr>
<tr>
<td>TCC</td>
<td>Tag Closed Cup</td>
</tr>
<tr>
<td>PMCC</td>
<td>Pensky-Martens Closed Cup</td>
</tr>
<tr>
<td>PPE</td>
<td>Personal Protection Equipment</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>ACGIH</td>
<td>American Association of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute of Occupational Safety &amp; Health</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
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</tr>
<tr>
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<td>Not Determined</td>
</tr>
<tr>
<td>NE</td>
<td>Not Established</td>
</tr>
<tr>
<td>g/L</td>
<td>grams per Liter</td>
</tr>
<tr>
<td>lbs./gal</td>
<td>pounds per gallon</td>
</tr>
<tr>
<td>STEL</td>
<td>Short Term Exposure Limit</td>
</tr>
</tbody>
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