MATERIAL SAFETY DATA SHEET

ADDITIN RC 5950  440D/1760S

RHEIN CHEMIE CORPORATION
145 Parker Court
Chardon, OH  44024

TRANSPORTATION EMERGENCY
CALL CHEMTREC...........: (800) 424-9300
INTERNATIONAL ...........: (703) 527-3887

NON-TRANSPORTATION
RCC EMERGENCY PHONE : (440) 285-3547
RCC INFORMATION PHONE: (800) 289-2436

Section 1: Product and Company Identification

Product Name:       ADDITIN RC 5950  440D/1760S
Article Number:     56668113

Section 2: Composition/Information on Ingredients

HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name/ CAS Number</th>
<th>Exposure Limits</th>
<th>Concentration Min.</th>
<th>Concentration Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetable Oil</td>
<td>OSHA (PEL):</td>
<td>15%</td>
<td>40%</td>
</tr>
<tr>
<td>CAS# is a trade secret</td>
<td>5.00 mg/m3 TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Respirable Fraction</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15.00 mg/m3 TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Particulate</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV):</td>
<td>10.00 mg/m3 TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exposure limit for: Vegetable oil mists</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfurized Rape Oil</td>
<td>OSHA (PEL):</td>
<td>10%</td>
<td>30%</td>
</tr>
<tr>
<td>CAS# is a trade secret</td>
<td>5.00 mg/m3 TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Respirable Fraction</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>15.00 mg/m3 TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fume</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV):</td>
<td>10.00 mg/m3 TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exposure limit for: Vegetable oil mists</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 3: Hazards Identification

**EMERGENCY OVERVIEW**

**CAUTION!** Color: Brown  **Form:** Liquid  **Odor:** Characteristic
May cause skin irritation. May cause eye irritation. May pose an aspiration hazard. Irritating gases/fumes may be given off during burning or thermal decomposition.

**POTENTIAL HEALTH EFFECTS**

Route(s) of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion

**HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE**

**Inhalation Hazards**
Acute Inhalation Hazards: Mists or sprays of insoluble oils are usually not harmful to the respiratory tract, although worker discomfort may occur at oil mist levels of 5 mg/m3. Gases and fumes evolved during thermal processing or decomposition of this material may cause irritation to the upper respiratory tract.

Chronic Inhalation Hazards: Repeated and prolonged contact with oils may cause fibrotic nodules, lipid pneumonia and lipid granuloma.

**Skin Hazards**
Acute Skin Hazards: This product may cause slight irritation. The usual skin response to oil based materials is an oil folliculitis (inflammation of the hair follicles) and oil acne that arises as a result of chemical irritation and mechanical plugging of the hair follicles.

Chronic Skin Hazards: None reported for this product as a whole.

**Eye Hazards**
Acute Eye Hazards: This product may cause mechanical irritation with symptoms of redness, rash, itching or burning.

Chronic Eye Hazards: None reported for this product as a whole.

**Ingestion Hazards**
Acute Ingestion Hazards: Not a likely route of exposure. If aspirated into the lungs, fibrotic nodules, lipid pneumonia and lipid granuloma may occur.

Chronic Ingestion Hazards: None reported for this product as a whole.

**Carcinogenic Components:**
NTP: None
IARC: None
Section 4: First Aid Measures

First Aid for Eye: In case of contact, flush eyes with large quantities of water for at least 15 minutes. Get medical attention if irritation develops or persists.

First Aid for Skin: In case of skin contact, wash affected areas with soap and water. Get medical attention if irritation develops or persists. Wash clothing and clean shoes before reuse.

First Aid for Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention if irritation develops or persists.

First Aid for Ingestion: If material is ingested, do not induce vomiting unless directed to do so by medical personnel. Should vomiting occur, keep patients head below hip level to prevent aspiration of fluid into the lungs. Get medical attention.

Section 5: Fire Fighting Measures

Flash Point: Not Established

Flammable Limits:
- Upper Explosion Limit (UEL %): Not Established
- Lower Explosion Limit (LEL %): Not Established

Auto-ignition Temperature: Not Established

Extinguishing Media:
- Suitable: Carbon Dioxide, Dry Chemical, Foam

Special Fire Fighting Procedures: Evacuate non-emergency personnel to a safe area. Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters. During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.

Section 6: Accidental Release Measures

Spill or Leak Procedures: Keep unnecessary personnel out of spill area. Emergency clean-up personnel should wear appropriate protection when entering the spill area for clean-up. Do not allow spilled or released material to enter ground water, waste water or soil. Cover spill with absorbent material, such as sand, sweeping compound or diatomaceous earth;
collect material for disposal. Ventilate area to remove vapors.

Section 7: Handling and Storage

Storage Temperature: Not Established - Ambient Recommended

Shelf Life: Not Established

Handling/Storage Precautions: Avoid contact with eyes and skin. Wash thoroughly after handling. Do not taste or swallow. Avoid inhalation and skin or eye contact with processing fumes. Use local exhaust ventilation above processing equipment. Keep away from heat, sparks and flames. Keep container tightly closed when not in use. Use with adequate ventilation.

Section 8: Exposure Controls/Personal Protection

Personal Protection Equipment

Eye Protection Requirements: Chemical safety goggles. In a splash hazard environment chemical goggles should be used in combination with a full face-shield.

Skin Protection Requirements: Permeation resistant gloves (neoprene, nitrile, or PVC) and impervious clothing (long sleeve shirts) are recommended.

Ventilation Requirements: Use local exhaust ventilation if dusting or misting is a problem, to maintain air levels below the recommended exposure limit.

Respirator Requirements: Under conditions of frequent use or heavy exposure, a NIOSH/MSHA respirator is recommended. An organic vapor cartridge should be used if ventilation is not sufficient to control fumes released during thermal processing.

Section 9: Physical and Chemical Properties

Physical Form: Liquid
Color: Brown
Odor: Characteristic
pH: Not Established
Boiling Point: Not Established
Melting/Freezing Point: Not Established
Solubility in Water: Essentially Insoluble
Solubility (non Aqueous): Soluble in mineral oils and synthetic base oils
Specific Gravity: 1.01 @ 68 °F (20 °C)
Vapor Pressure: Not Established
Vapor Density: Not Established
Section 10: Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Substances to Avoid: Reducing agents, Oxidizing agents, Acids, Bases.
Conditions to Avoid: Extremes of temperature and direct sunlight
Decomposition Temperature: Not Established
Decomposition Products: Oxides of carbon, and other undetermined fragments.

Section 11: Toxicological Information

Toxicity Data for ADDITIN RC 5950 440D/1760S
Toxicity Note: No data available for this product.

Toxicity Data for Vegetable Oil
Toxicity Note: No data available for this component.

Toxicity Data for Sulfurized Rape Oil
Toxicity Note: No data available for this component.

Toxicity Data for Phenoxyisopropanol
Toxicity Note: No data available for this component.

Section 12: Ecological Information

Ecological Data for ADDITIN RC 5950 440D/1760S
Ecological Note: No data available for this product.

Ecological Data for Vegetable Oil
Ecological Note: No data available for this component.

Ecological Data for Sulfurized Rape Oil
Ecological Note: No data available for this component.

Ecological Data for Phenoxyisopropanol
Ecological Note: No data available for this component.

Section 13: Disposal Considerations

Waste Disposal Method: Disposal must be in compliance with federal, state and local environmental control regulations.
Empty Container Precautions: Recondition or dispose of empty container in accordance with
government regulations.

Other Disposal Notes: Rhein Chemie requires that CHEMTREC be immediately notified (800-424-9300) when this product is unintentionally released from its container during its course of distribution, regardless of the amount released. Such notification must be immediate and made by the person having knowledge of the release. Distribution includes transportation, storage incidental to transportation, loading and unloading.

Section 14: Transportation Information

Technical shipping name: Lubricating Oil Additives

Domestic Surface Transportation (DOT)
Hazard Class or Division: Non-Regulated

Marine Transportation (IMO / IMDG)
Hazard Class Division Non-Regulated
Number:

Air Transportation (ICAO / IATA)
Hazard Class Division Non-Regulated
Number:

Section 15: Regulatory Information

United States Federal Regulations

OSHA Hazcom Standard Rating: Hazardous

TSCA Inventory List: On TSCA Inventory

CERCLA Hazardous Substance:
Component(s) None

SARA Title III
SARA Section 302 Extremely Hazardous Substances:
Component(s)/
CAS Number None

SARA Section 311/312 Hazard Categories:
Immediate Health Hazard

SARA Section 313 Toxic Chemicals:

Material Name: ADDITIN RC 5950 440D/1760S Article Number: 56668113
RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product, should be classified as a hazardous waste. (40 CFR 261.20-24)

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

State Right-to-Know Information

<table>
<thead>
<tr>
<th>Component(s)/CAS Number</th>
<th>State Code</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfurized Vegetable Fatty Acid Esters, NJTSRN:000001351</td>
<td>PA-H, NJ-N, MA-H</td>
<td>30% 60%</td>
</tr>
<tr>
<td>Vegetable Oil, NJTSRN:000002537</td>
<td>PA-H, NJ-N, MA-H</td>
<td>15% 40%</td>
</tr>
<tr>
<td>Sulfurized Rape Oil, NJTSRN:000001119</td>
<td>PA-H, NJ-N, MA-H</td>
<td>10% 30%</td>
</tr>
<tr>
<td>Phenoxysopropanol, NJTSRN:000001218</td>
<td>PA-N, NJ-N</td>
<td>10% 30%</td>
</tr>
<tr>
<td>Polyolefin Sulfide, NJTSRN:000001218</td>
<td>PA-N, NJ-N</td>
<td>5% 10%</td>
</tr>
</tbody>
</table>

State Code Translation Table
PA-N = Pennsylvania Non-hazardous
PA-H = Pennsylvania Hazardous Substance List
NJ-N = New Jersey Other - includes predominant ingredients
MA-H = Massachusetts Hazardous Substance List

Section 16: Other Information

HMIS Rating

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe
*Chronic Health Hazard

RHEIN CHEMIE CORPORATION's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by RHEIN CHEMIE CORPORATION as a customer service.

Contact: HES Dept.
Phone: (440) 285-3547
MSDS Number: 000000007219
Version Date: 06/09/2009
MSDS Version: 1.0
This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of RHEIN CHEMIE CORPORATION. The data on this sheet relates only to the specific material designated herein. RHEIN CHEMIE CORPORATION assumes no legal responsibility for use or reliance upon these data.

Indicates Relevant Change Made.