Section 1: Product and Company Identification

Product Name: Additin RC 8107
Product Use: Additive for lubricants

Section 2: Composition/Information on Ingredients

HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name/ CAS Number</th>
<th>Exposure Limits</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Fatty Acid 141-22-0</td>
<td>OSHA (PEL): Not Established</td>
<td>95%</td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV): Not Established</td>
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</tr>
</tbody>
</table>

Section 3: Hazards Identification

EMERGENCY OVERVIEW

CAUTION! Non-regulated. Color: Clear, Colorless to Yellow Form: Liquid Viscous Odor: Characteristic
May cause skin irritation. May cause eye irritation. Irritating gases/fumes may be given off during burning or thermal decomposition.

POTENTIAL HEALTH EFFECTS

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

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE
Inhalation Hazards
Acute Inhalation Hazards: Inhalation of vapors from heated product may cause respiratory irritation with symptoms of coughing, sneezing, or dryness of throat.

Chronic Inhalation Hazards: Expected to be similar to those for acute inhalation.

Skin Hazards
Acute Skin Hazards: This product may cause skin irritation. Irritation may be seen as local redness, swelling and blistering of the affected area.

Chronic Skin Hazards: Repeated or prolonged contact may result in dermatitis or effects similar to acute exposure.

Eye Hazards
Acute Eye Hazards: Eye contact may cause eye irritation with discomfort, tearing, or blurring of vision.

Chronic Eye Hazards: Effects are expected to be similar to those listed above for acute eye exposure.

Ingestion Hazards
Acute Ingestion Hazards: Not a likely route of exposure. However, if ingested in large quantities, this product may cause nausea and vomiting.

Chronic Ingestion Hazards: Expected to cause effects similar to acute ingestion.

Carcinogenic Components:
NTP: None
IARC: None
OSHA: 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. The eyelids should be held apart during irrigation to ensure thorough flushing of all eye tissue. 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. Give victim one or two glasses of water or milk. Seek medical attention if irritation develops or persists. Never give anything by mouth to an unconscious person.
Note to Physician: Treat symptomatically.

**Section 5: Fire Fighting Measures**

**Flash Point:** Approximately 435 °F (224 °C)

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

**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam, Water spray for large fires.

**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. Use cold water spray to cool fire exposed containers. A solid stream of water directed into the burning material could spread the fire. Contain fire fighting water for treatment and proper disposal.

**Unusual Fire/Explosion Hazards:** Formation of noxious fumes during thermal decomposition.

**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. If it is safe to do so, trained personnel should attempt to reduce or stop leak. 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. Remove containers to a safe place.

**Section 7: Handling and Storage**

**Storage Temperature:**
- Minimum: 32 °F (0 °C)

**Handling/Storage Precautions:** Avoid contact with eyes and skin. Keep container tightly closed when not in use. Keep away from heat, sparks and flames. Do not store with incompatible materials. Do not store or consume food, drink or tobacco in area where they may become contaminated with this material. Handle in accordance with good industrial hygiene and safety practices.

**Other Notes:** Material should be stored in a clean, dry environment in sealed containers.
Section 8: Exposure Controls/Personal Protection

**Personal Protection Equipment**

**Eye Protection Requirements:** Safety glasses with side shields or goggles are recommended. In a splash hazard environment chemical goggles should be used in combination with a full face-shield.

**Skin Protection Requirements:** Chemically resistant gloves recommended (neoprene). Cover as much of the exposed skin area as possible with appropriate clothing, coveralls, apron and boots.

**Hand Protection Requirements:** Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.

**Ventilation Requirements:** Engineering controls should be sufficient to ensure airborne levels do not reach hazardous levels. Thermal processing operations should be ventilated to control gases and fumes given off during processing.

**Respirator Requirements:** Under conditions of frequent use or heavy exposure, A NIOSH/MSHA respirator is recommended. The specific respirator selected must be based on contamination levels found in the work place, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

**Additional Protective Measures:** Safety showers and eyewash stations should be accessible to the work area.

Section 9: Physical and Chemical Properties

**Physical Form:** Liquid

**Appearance:** Viscous

**Color:** Clear, Colorless to Yellow

**Odor:** Characteristic

**Boiling Point:** Approximately 439 - 473 °F (226 - 245 °C) @ 10 mmHg

**Melting/Freezing Point:** Approximately 41 - 43 °F (5 - 6 °C)

**Pour Point:** Approximately -15 - 10 °F (-26 - -12 °C)

**Solubility in Water:** Insoluble

**Specific Gravity:** Approximately 0.9 @ 4 °C

**Vapor Density:** Approximately 10.3

Section 10: Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur
Materials:

**Additin RC 8107**

**Substances to Avoid:** Bases., Oxidizing agents., Reducing agents.

**Conditions to Avoid:** Extremes of temperature and direct sunlight

**Decomposition Products:** Oxides of carbon, Oxides of phosphorus, and other undetermined fragments.

### Section 11: Toxicological Information

**Toxicity Data for Additin RC 8107**

**Toxicity Note:** No data available for this product.

**Toxicity Data for Aliphatic Fatty Acid**

**Eye Irritation:** Moderately irritating

**Skin Irritation:** Moderately irritating

### Section 12: Ecological Information

**Ecological Data for Additin RC 8107**

**Ecological Note:** No data available for this product.

**Ecological Data for Aliphatic Fatty Acid**

**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:** Do not reuse empty container. Label precautions also apply to this container when empty. 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. Distribution includes transportation, storage incidental to transportation, loading and unloading. Such notification must be immediate and made by the person having knowledge of the release.

### 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) Reportable Quantity
None

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

SARA Section 311/312 Hazard Categories:
Immediate Health Hazard

SARA Section 313 Toxic Chemicals:
Component(s)/ Reporting Concentration
CAS Number Threshold Min. Max.
None

RCRA Status: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, 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
Component(s)/ Concentration
CAS Number State Code Min. Max.
Aliphatic Fatty Acid PA-N, NJ-N 95%
141-22-0

State Code Translation Table
PA-N = Pennsylvania Non-hazardous
NJ-N = New Jersey Other - includes predominant ingredients

Section 16: Other Information

NFPA 704M Rating

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<th>Health</th>
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<th>2=Moderate</th>
<th>3=High</th>
<th>4=Extreme</th>
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<td>Reactivity</td>
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<td>Other</td>
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HMIS Rating

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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: 000000009174
Version Date: 03/15/2013
MSDS Version: 1.0

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Indicates Relevant Change Made.