Section 1: Product and Company Identification

Product Name: ADDITIN RC 9200 440D/1760S
Article Number: 2282282
Chemical Family: Additive Package based on Zinc Dialkyldithiophosphate with Corrosion Inhibitor in Mineral Oil
Chemical Name: Zinc Alkyldithiophosphate Mixture in Mineral Oil

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></td>
<td>OSHA (PEL):</td>
<td>Min.</td>
</tr>
<tr>
<td>Zinc Alkyldithiophosphate</td>
<td></td>
<td>30%</td>
</tr>
<tr>
<td>CAS# is a trade secret</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Paraffinic 64742-55-8</td>
<td>OSHA (PEL):</td>
<td>15%</td>
</tr>
<tr>
<td></td>
<td>5.00 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.00 mg/m³ STEL</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.00 mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exposure limit for: Oil mist, mineral</td>
<td></td>
</tr>
<tr>
<td>Aromatic Hydroxyl</td>
<td></td>
<td>5%</td>
</tr>
<tr>
<td>CAS# is a trade secret</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not Established</td>
<td></td>
</tr>
</tbody>
</table>
those listed for acute ingestion.

**Carcinogenic Components:**
- **NTP:** None
- **IARC:** None
- **OSHA:** None

**Medical Conditions Aggravated by Exposure:**
- May aggravate existing eye or skin conditions.
- May aggravate respiratory disorders.

### 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.

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

**First Aid for Inhalation:**
If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**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. Never give anything by mouth to an unconscious person. Call a physician immediately. Should vomiting occur, keep patients head below hip level to prevent aspiration of fluid into the lungs.

**Note to Physician:**
Treat symptomatically.

### Section 5: Fire Fighting Measures

**Flash Point:**
> 302 °F (> 150 °C) ISO 2592

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

**Auto-ignition Temperature:**
Not Established

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

**Suitable Special Fire Fighting Procedures:**
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. During a
Ventilation Requirements: Use local exhaust ventilation if dusting or misting is a problem, to maintain air levels below the recommended exposure limit.

Respirator Requirements: The specific respirator selected must be based on contamination levels found in the workplace, 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). Air purifying respirator equipped with a full-face organic vapor and dust/mist cartridge if vapors are near or exceeding the exposure limits listed in Section 2. In areas of high concentrations, confined space or other poorly ventilated areas and for large spill clean-up sites, fresh air-line respirators or self-contained breathing apparatus should be used. Observe OSHA regulations for respirator use (29 CFR 1910.134.)

Additional Protective Measures: Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees on the safe use and handling of this product.

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Dark Brown</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not Established</td>
</tr>
<tr>
<td>pH</td>
<td>Not Established</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not Established</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Not Established</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Approximately 0.75 cm2/s (kinematic value) @ 104 °F (40 °C)</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Approximately 1 @ 68 °F (20 °C)</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>Approximately 8.345 lb/gal</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Established</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Established</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Estimated</td>
</tr>
<tr>
<td>VOC by Weight</td>
<td>Not Established</td>
</tr>
<tr>
<td>HOC by Weight</td>
<td>None</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

Stability: Stable. Material is stable room temperature under normal storage and handling conditions.

Hazardous Polymerization: Will not occur

Substances to Avoid: Oxidizing materials and acids.

Conditions to Avoid: High Heat, Above 176 F (80 C), exothermic reaction of product dust with air may cause spontaneous ignition.

Decomposition Temperature: Begins at 176 °F (80 °C)
Ecological Data for Aromatic Hydroxyl

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. If incinerated, toxic and corrosive combustion gases must be properly handled.

Empty Container Precautions: Empty container retains product residue and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity, or other sources of ignition. Recondition or dispose of empty container in accordance with government regulations.

Section 14: Transportation Information

Technical shipping name: Mixture containing Zinc alkyldithiophosphate in mineral oil.

Marine Pollutant Components:

<table>
<thead>
<tr>
<th>Component(s)/CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aromatic Hydroxyl</td>
<td>5%</td>
</tr>
<tr>
<td>NJTSRN:000000185</td>
<td>10%</td>
</tr>
</tbody>
</table>

Freight Class

Bulk: Chemicals, N.O.I. (NMFC 60000)
Package: Chemicals, N.O.I. (NMFC 60000)

Product Label: Product Label Established

Domestic Surface Transportation (DOT)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class or Division: 9
UN/NA Number: UN3082
Packing Group: III
Hazard Label(s): Class 9
Hazard Placard(s): Class 9

Marine Transportation (IMO / IMDG)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class Division: 9
Number:
UN Number: UN3082
Packaging Group: III
Hazard Label(s): Miscellaneous
Hazard Placard(s): Miscellaneous

Air Transportation (ICAO / IATA)

Material Name: ADDITIN RC 9200 440D/1760S
Article Number: 2282282
Component(s)/CAS Number | State Code | Concentration
---|---|---
Zinc Alkylidithiophosphate | PA-H, PA-E, NJ-H, NJ-E | Min. 30% Max. 60%
Distillates, Petroleum, Hydrotreated Light Paraffinic | PA-H, NJ-H, MA-H | 15% 40%
64742-55-8 | PA-N, NJ-N | 5% 10%
Aromatic Hydroxyl | | 
NJTSRN:00000181 | | 
Petroleum Sulfonate Salts | PA-N, NJ-N | 5% 10%
NJTSRN:000001336 | | 
Petroleum Sulfonate | PA-N, NJ-N | 1% 5%
NJTSRN:000000839 | | 

The following component(s) are listed under Massachusetts Extra-ordinary Hazards:
Distillates, Petroleum, Hydrotreated Light | MA-X | 15% 40%
Paraffinic | | 64742-55-8

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

Section 16: Other Information

**HMIS Rating**

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

0=Minimal 1=Light 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: R33301
Version Date: 02/21/2007
MSDS Version: 2.13

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