

# MATERIAL SAFETY DATA SHEET



ADDITIN RC 2540 440 D/1760S

**RHEIN CHEMIE CORPORATION**  
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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 2540 440 D/1760S  
**Article Number:** 2281936  
**Product Code:** 230090, 230091, 230095  
**Chemical Family:** Dialkyl Polysulfide  
**Product Use:** The product is not affected by the European directive 2002/95/EC (RoHS)

**Section 2: Composition/Information on Ingredients**

**HAZARDOUS INGREDIENTS**

<u>Ingredient Name/ CAS Number</u>	<u>Exposure Limits</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.			

**Section 3: Hazards Identification**

**EMERGENCY OVERVIEW**

**CAUTION!** Non-regulated. **Color:** Yellow **Form:** Liquid **Odor:** Characteristic  
Product poses little or no hazard if spilled and no unusual hazard if involved in a fire.  
Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Use water as fog or mist; solid streams may spread fire. Irritating gases/fumes are given off during burning or thermal decomposition.

**POTENTIAL HEALTH EFFECTS**

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

## HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

### General Effects of Exposure

#### **Acute Effects of Exposure:**

It is expected that this product will be essentially non-irritating to the eyes and skin and essentially non-toxic by ingestion. This product, as a whole, under these conditions, has not been associated with any adverse acute health effects. Gases and fumes evolved during thermal processing or decomposition of this material may cause irritation to the upper respiratory tract. Irritation of the respiratory tract may result in discomfort, and coughing.

#### **Chronic Effects of Exposure:**

None reported for this product as a whole. Effects are expected to be similar to those listed for acute human health effects.

### Carcinogenic Components:

**NTP:** None

**IARC:** None

**OSHA:** None

#### **Medical Conditions**

#### **Aggravated by Exposure:**

None reported for this product as a whole. May aggravate an existing dermatitis, eye condition, respiratory disorder or other allergic reactions due to mechanical irritation.

## 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:**

Wash clothing and clean shoes before reuse. Immediately remove contaminated clothing and shoes. In case of skin contact, wash affected areas with soap and water. Get medical attention if irritation develops or persists.

#### **First Aid for Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### **First Aid for Ingestion:**

Call a physician. If material is ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

#### **Note to Physician:**

Treat symptomatically.

## Section 5: Fire Fighting Measures

#### **Flash Point:**

Approximately 302 °F (150 °C) ISO 2592

#### **Flammable Limits:**

**Upper Explosion Limit** Not Established

**(UEL %):**

**Lower Explosion Limit** Not Established

(LEL %):  
**Auto-ignition Temperature:** Not Established

**Extinguishing Media:**  
**Suitable:** Water, Carbon Dioxide, Dry Chemical, Foam

**Special Fire Fighting Procedures:** A solid stream of water directed into the burning material could spread the fire. 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. During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion. Hydrogen sulfide (H<sub>2</sub>S) formation is possible after prolonged heating.

**Unusual Fire/Explosion Hazards:** None known

#### Section 6: Accidental Release Measures

**Spill or Leak Procedures:** Do not allow spilled or released material to enter ground water, waste water or soil. Extinguish all ignition sources. Keep unnecessary personnel out of spill area. Emergency clean-up personnel should wear appropriate protection when entering the spill area for clean-up. Notify local health authorities and other appropriate agencies if such contamination should occur. Cover the spill with absorbent material such as sand, sweeping compound or diatomaceous earth. Scoop up solid absorbent for waste disposal. Spill area can be washed with water. Ventilate area to remove vapors.

**Other Accidental Release 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 7: Handling and Storage

**Storage Temperature:** Store at ambient conditions

**Shelf Life:** Not Established

**Special Sensitivity:** Heat and sources of ignition

**Handling/Storage Precautions:** Keep away from heat, sparks and flames. Store in a dry place away from excessive heat. Keep container tightly closed when not in use. Avoid contact with skin or clothing. Avoid breathing dusts, vapors or mists. Storage area should be equipped with sprinkler system. Handle in accordance with good industrial hygiene and safety.

practices

## Section 8: Exposure Controls/Personal Protection

### Personal Protection Equipment

- Eye Protection Requirements:** Safety glasses with side shields or goggles are recommended
- 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:** 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). 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

<b>Physical Form:</b>	Liquid
<b>Color:</b>	Yellow
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not Established
<b>pH:</b>	Not Established
<b>Boiling Point:</b>	Not Established
<b>Melting/Freezing Point:</b>	Not Applicable
<b>Viscosity:</b>	Approximately 50 mPa.s @ 104 °F (40 °C) DIN 51562
<b>Solubility in Water:</b>	Essentially Insoluble
<b>Solubility (non Aqueous):</b>	Soluble in mineral oils and synthetic base oils
<b>Specific Gravity:</b>	Approximately 1 @ 68 °F (20 °C) DIN 51757
<b>Bulk Density:</b>	Approximately 8.34 lb/gal
<b>Percent Volatile by Volume:</b>	None detected.
<b>Evaporation Rate:</b>	Not Established
<b>Vapor Pressure:</b>	Not Established
<b>Vapor Density:</b>	Not Established

## Section 10: Stability and Reactivity

<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Substances to Avoid:</b>	Oxidizing materials
<b>Conditions to Avoid:</b>	High Heat
<b>Decomposition Temperature:</b>	Approximately 212 °F (100 °C)
<b>Decomposition Products:</b>	By fire and/or thermal decomposition: hydrogen sulfide, sulfur dioxide, oxides of carbon, and other undetermined aliphatic fragments.

## Section 11: Toxicological Information

### Toxicity Data for ADDITIN RC 2540 440 D/1760S

<b>Acute oral toxicity:</b>	LD50 = > 3,000 mg/kg (Rat)
<b>Eye Irritation:</b>	Non-irritating (Rabbit)
<b>Skin Irritation:</b>	Non-irritating (Rabbit)
<b>Sensitization:</b>	No sensitization (Guinea pig) OECD Guideline No. 406 (Skin Sensitization)

## Section 12: Ecological Information

### Ecological Data for ADDITIN RC 2540 440 D/1760S

<b>Fish Toxicity:</b>	> 100 mg/L,
<b>Inhibition Bacteria:</b>	EC50: > 10,000 mg/L,
<b>Ecological Note:</b>	Water Pollution Class WGK 1 - slightly hazardous to water (German Water Resources Act)

## Section 13: Disposal Considerations

<b>Waste Disposal Method:</b>	Disposal must be in compliance with federal, state and local environmental control regulations. If incinerated, toxic and corrosive combustion gases must be properly handled.
<b>Empty Container Precautions:</b>	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:** Dialkyl Polysulfide

**Freight Class**

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

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

**Product Label:** Product Label Established

**Domestic Surface Transportation (DOI)**

**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:** Non-Hazardous

**TSCA Inventory List:** On TSCA Inventory

**CERCLA Hazardous Substance:**

Component(s)

None

Reportable Quantity

**SARA Title III**

**SARA Section 302 Extremely Hazardous Substances:**

Component(s)/

CAS Number

None

Concentration

Min.

Max.

**SARA Section 311/312 Hazard Categories:** Non-hazardous under Section 311/312

**SARA Section 313 Toxic Chemicals:**

Component(s)/

CAS Number

None

Reporting  
Threshold

Concentration

Min.

Max.

**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**

<u>Component(s)/ CAS Number</u>	<u>State Code</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Polyolefin Sulfide NJTSRN:000001218	PA-N, NJ-N		100%

**State Code Translation Table**

PA-N = Pennsylvania Non-hazardous  
NJ-N = New Jersey Other - includes predominant ingredients

**Foreign Chemical Inventory List(s)**

<b>EINECS (Europe):</b>	Listed
<b>DSL (Canada):</b>	Listed
<b>AICS (Australia):</b>	Listed
<b>MITI (Japan):</b>	Listed
<b>MOE (Korea):</b>	Listed
<b>PICCS (Philippines):</b>	Listed

**Section 16: Other Information****HMIS Rating**

<b>Health</b>	0
<b>Flammability</b>	1
<b>Reactivity</b>	0

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  
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