

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

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Manufacturer: AccuStandard, Inc.  
 125 Market Street  
 New Haven, CT 06513

Date MSDS Printed: 10/5/2005  
 Preparation Date: 10/5/2005  
 Information Phone Number: 203-786-5290  
 Emergency Phone Number: 203-786-5290  
 Hours: Mon. to Fri. 8am-5pm EDT

MSDS Number: P-313N

Product Name: Coumatetralyl

Synonyms: Coumatetralyl; 4-Hydroxy-3-(1,2,3,4-tetrahydro-1-naphthyl)coumarin; Racumin™

Formula: C19H16O3

Molecular Weight: 292.33

**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

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Component(s)	( 1 )	CAS #	Appr. %	ACGIH-TLV (mg/m3)		OSHA-PEL (mg/m3)	
				TWA	STEL skin	TWA	STEL skin
Coumatetralyl		5836-29-3	100				

**SECTION 3 - HAZARDS IDENTIFICATION**

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**Symptoms of Exposure:**

May be irritating to eyes, skin, and mucous membranes.

To the best of our knowledge the chemical, physical and toxicological properties of the component ingredients have not been thoroughly investigated.

**Potential Health Effects:**

May be fatal if inhaled, absorbed through skin, or swallowed.

May cause blood disorders.

**Routes of Entry:**

Inhalation, ingestion or skin contact.

**Carcinogenicity:**

This product is or contains a component that is not listed (ACGIH, IARC, NTP, OSHA) as a cancer causing agent.

**SECTION 4 - FIRST AID MEASURES**

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**Emergency First Aid:**

Get medical assistance for all cases of overexposure.

Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: Drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## **SECTION 5 - FIRE FIGHTING MEASURES**

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### **Flammable Properties:**

Flash Point: N/A  
Flammable Limits LEL (%): N/A  
Flammable Limits UEL (%): N/A  
Autoignition Temperature: N/A

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

### **Extinguishing Media:**

Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

### **Fire Fighting Procedures:**

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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### **Spill Response:**

Wear self-contained breathing apparatus and full protective clothing. Avoid raising dust. Prevent contact with skin or eyes. Take up and containerize for proper disposal. Ventilate area. Flush spill area with water. Comply with Federal, State, and local regulations.

## **SECTION 7 - HANDLING AND STORAGE**

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Store in a tightly closed container.  
Store in a cool area away from ignition sources and oxidizers.  
Do not breathe dust.  
Do not get in eyes, on skin, or on clothing.  
Avoid prolonged or repeated exposure.  
This product should only be used by persons trained in the safe handling of hazardous chemicals.

## **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **Engineering Controls and Personal Protection Equipment (PPE):**

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Compatible chemical-resistant protective gloves must be worn to prevent skin contact.

Safety glasses with side shields must be worn at all times.

**General Hygiene Considerations:**

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance: White to off-white crystalline solid

Odor: Odorless

pH: N/A

Vapor Pressure: <190 Pa (20°C)

Vapor Density (Air = 1): N/A

Boiling Point: N/A

Melting Point: 172 to 176°C

Solubility in Water (%): Soluble

Specific Gravity (H<sub>2</sub>O = 1): N/A

Flash Point: N/A

Explosion Limits (%): N/A to N/A

Autoignition Temperature: N/A

Percent Volatile: N/A

Evaporation Rate (BuAc = 1): N/A

Molecular Weight: 292.33

Molecular Formula: C<sub>19</sub>H<sub>16</sub>O<sub>3</sub>

**SECTION 10 - STABILITY AND REACTIVITY**

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Stability: Stable

Conditions To Avoid: Light; Moisture

Materials To Avoid: Oxidizers

Hazardous Decomposition: Carbon oxides

Rapidly decomposed in aqueous solutions exposed to sunlight or u.v. light

Hazardous Polymerization: Does not occur

**SECTION 11 - TOXICOLOGICAL INFORMATION**

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See section 3 for specific toxicological information for the ingredients of this product.

**SECTION 12 - ECOLOGICAL INFORMATION**

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By complying with sections 6 and 7 there will be no release to the environment.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

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Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

**SECTION 14 - TRANSPORT INFORMATION**

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DOT UN Number: UN3027 Shipping Class: 6.1 Packing Group: II TOXIC

**SECTION 15 - REGULATORY INFORMATION**

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In addition to Federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

The following regulations apply:

The CAS number of this product is NOT listed on the TSCA Inventory. For reasearch and development use only. Not for manufacturing or commercial purposes.

**SECTION 16 - OTHER INFORMATION**

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This document has been designed to meet the requirements of OSHA, ANSI and CHIPs regulations.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. It is intended for use only by persons having the necessary technical skill and at their own discretion and risk. Since conditions and manner of use are outside our control, we make  
NO WARRANTY, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.

Legend : N/A = Not Available    ND = Not Determined    NR = Not regulated

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