# MATERIAL SAFETY DATA SHEET



H.C. STARCK INC. 45 Industrial Place Newton, MA 02461-1951

TRANSPORTATION EMERGENCY NON-TRANSPORTATION

# **Section 1: Product and Company Identification**

**Product Name:** Baytron® P VP CH 8000 200 g sample

Material Number: 1019554 Product Code: V4080

**Chemical Family:** Aqueous mixture of a thiophene

**Chemical Name:** Mixture of water and 3,4-polyethylenedioxythiophene-

polystyrenesulfonate (cationic)

## Section 2: Composition/Information on Ingredients

#### **HAZARDOUS INGREDIENTS**

<u>Ingredient Name/</u>		<b>Concentration</b>	
CAS Number	<b>Exposure Limits</b>	Min.	Max.
Polystyrene Sulfonic Acid	OSHA (PEL):	1%	5%
28210-41-5	Not Established		
	ACGIH (TLV):		
	Not Established		

### Section 3: Hazards Identification

# EMERGENCY OVERVIEW

**CAUTION!** Non-regulated. **Color:** Dark Blue **Form:** Liquid **Odor:** Nearly odorless

Causes skin irritation. Causes 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, Inhalation

#### HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

**Skin Hazards** 

**Acute Skin Hazards:** Skin contact causes irritation with symptoms of reddening, itching,

burning and swelling.

**Eye Hazards** 

**Acute Eye Hazards:** Eye contact causes irritation with symptoms of reddening, tearing,

itching and pain.

**Carcinogenic Components:** 

NTP: None

IARC: None

OSHA: None

**Medical Conditions** Persons with preexisting eye or skin conditions or impaired

**Aggravated by Exposure:** pulmonary function may be more susceptible to the effects ofthis

product.

#### **Section 4: First Aid Measures**

**First Aid for Eye:** In case of contact, flush eyes with plenty of lukewarm water. Get

medical attention if irritation develops or persists.

**First Aid for Skin:** Wash skin with soap and water. Get medical attention if irritation

develops or persists. Wash clothing and shoes before reuse.

**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:** Immediately call a physician.

# **Section 5: Fire Fighting Measures**

Flash Point:  $> 212 \,^{\circ}\text{F} (> 100 \,^{\circ}\text{C})$ 

Flammable Limits:

Upper Explosion Limit Not Established

(UEL %):

Lower Explosion Limit Not Established

(LEL %):

**Auto-ignition Temperature:**  $> 932 \, ^{\circ}\text{F} \, (> 500 \, ^{\circ}\text{C})$ 

**Extinguishing Media:** 

Suitable: Material is not combustible. Use extinguishing media suitable for

other combustible materials in the area.

**Special Fire Fighting** Firefighters should be equipped with self-contained breathing

**Procedures:** apparatus to protect against potentially toxic and irritating fumes.

# Section 6: Accidental Release Measures

Spill or Leak Procedures: Utilize recommended protective clothing and equipment. Absorb

> spill with inert material (e.g. dry sand or earth), then place in a suitable container. Spill area can be washed with water; Collect wash

water for approved disposal.

# Section 7: Handling and Storage

**Storage Temperature:** 

Minimum: 50 °F (10 °C) **Maximum:** 122 °F (50 °C)

Shelf Life: 6 Months

**Special Sensitivity:** None known.

**Handling/Storage Precautions:** Avoid breathing vapor, spray or mist. Avoid contact with eyes. Store

> away from alkalis, acids, food and beverages. Handle as any moderately strong acid would be handled. Protect from freezing.

### Section 8: Exposure Controls/Personal Protection

**Personal Protection Equipment** 

**Eye Protection Requirements:** Safety glasses or goggles.

**Skin Protection Requirements:** Permeation resistant gloves and clothing are recommended to

minimize skin contact., Employees should wash their hands and face

before eating, drinking or using tobacco products.

Use local exhaust or other means to minimize worker exposure to **Ventilation Requirements:** 

airborne vapors.

**Respirator Requirements:** A NIOSH/MSHA approved respirator for organic vapors is

recommended. Do not exceed the use limits of the respirator.

**Additional Protective** 

Emergency showers and eye wash stations should be available. Measures:

Educate and train employees in the safe use and handling of this

product.

# Section 9: Physical and Chemical Properties

**Physical Form:** Liquid Color: Dark Blue Odor: Nearly odorless

Material Name: Baytron® P VP CH 8000 200 g sample

Product Code: V4080

**pH:** 1 - 2 @ 68 °F (20 °C)

**Boiling Point:** Approximately 212 °F (100 °C) **Melting/Freezing Point:** Approximately 32 °F (0 °C)

Viscosity: Not Established

Solubility in Water: Miscible

**Specific Gravity:** Approximately 1 @ 68 °F (20 °C)

Bulk Density: Not Established

**Vapor Pressure:** Approximately 23 mbar @ 68 °F (20 °C)

# Section 10: Stability and Reactivity

**Stability:** Under normal conditions of use and storage, the product is stable.

Hazardous Polymerization: Will not occur

**Substances to Avoid:** Avoid contact with acids and bases.

**Conditions to Avoid:** None known.

**Decomposition Temperature:** Not Established

**Decomposition Products:** Thermal decomposition may produce carbon monoxide, carbon

dioxide, organic sulfur compounds, and other potentially toxic

fumes.

# Section 11: Toxicological Information

# Toxicity Data for Baytron® P VP CH 8000 200 g sample

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

Acute oral toxicity: LD50 = 2,000 mg/kg (Rat) Source: Tests performed on a similar

product

**Sensitization:** No indication of a sensitizing effect (Magnusson Kligman) Source:

Tests performed on a similar product

Mutagenicity: Ames test: negative Source: Tests performed on a similar product

# Toxicity Data for Polystyrene Sulfonic Acid

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

### **Section 12: Ecological Information**

### Ecological Data for Baytron® P VP CH 8000 200 g sample

Fish Toxicity: > 10,000 mg/L, Zebra fish (Brachydanio rerio) Source: Tests

performed on a similar product

**Inhibition Bacteria:** EC50: > 10,000 mg/L, Activated sludge microorganisms Source:

Tests performed on a similar product

**Ecological Data for Polystyrene Sulfonic Acid** 

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

**Section 13: Disposal Considerations** 

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state

and local environmental control regulations.

**Section 14: Transportation Information** 

**Technical shipping name:** Thiophene Mixture

**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)** 

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:

Radioactive?: Non-Radioactive

Section 15: Regulatory Information

**United States Federal Regulations** 

OSHA Hazcom Standard Hazardous

Rating:

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)/ConcentrationCAS NumberMin.Max.

None

**SARA Section 311/312 Hazard** Immediate Health Hazard **Categories:** 

### **SARA Section 313 Toxic Chemicals:**

Component(s)/ReportingConcentrationCAS NumberThresholdMin.Max.None

**RCRA Status:** 

When discarded in its purchased form, this product meets the criteria of corrosivity, and should be managed as a hazardous waste (EPA Hazardous Waste Number D002). (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)/		Concer	<u>ntration</u>	
CAS Number	State Code	Min.	Max.	
Water	PA-N, NJ-N	95%		
7732-18-5				
Polystyrene Sulfonic Acid	PA-N, NJ-N	1%	5%	
28210-41-5				

# State Code Translation Table

PA-N = Pennsylvania Non-hazardous

NJ-N = New Jersey Other - includes predominant ingredients

## **Section 16: Other Information**

# **HMIS Rating**

Health	1
Flammability	0
Reactivity	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

H.C. STARCK INC.'s method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by H.C. STARCK INC. as a customer service.

Contact Person: Product Safety Department

Telephone: (412) 777-2835

MSDS Number: R40144 Version Date: 11/11/2005

MSDS Version: 3.2

<sup>\*=</sup>Chronic Health Hazard

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