

## Material Safety Data Sheet

Product name: **Coadd™ R-6420**

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### Section 1: Product and Company Information

<b>Product Name</b>	Coadd™ R-6420
<b>Product Use</b>	Rheology Additive
<b>Company Name</b>	Polywill (Shanghai) Advanced Material Co., Ltd.
<b>Street Address</b>	No 3399, Kang-Xin Highway, Building 17. Pudong District, Shanghai, China
<b>Telephone</b>	+86-21-20965181
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<b>Emergency response Information</b>	+86-21-20965181

### Section 2: Hazard Identification

#### Emergency Overview

<b>Physical Appearance</b>	Liquid
<b>Colour</b>	Yellowish
<b>Odour</b>	Mild
<b>Water solubility</b>	Immiscible

#### Potential Health Effects

<b>Immediate Concerns</b>	Flammable
<b>Eyes</b>	Irritating to eyes.
<b>Skin</b>	Irritating to skin. May be absorbed through the skin in harmful amounts.
<b>Ingestion</b>	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Inhalation</b>	May cause respiratory irritation.

**Primary routes of entry**

Eyes, Skin, Liver, Kidney, spleen, Blood

### Section 3: Composition/Information on Ingredients

**Substance / Mixture:** Mixture  
**Chemical Nature** Solution of modified polyurea

Components	CAS	Concentration (%)
Modified polyurea	No Hazardous	46-53
1-Methyl-2-pyrrolidone	872-50-4	47-54

### Section 4: First-aid Measures

**Eyes** Flush eye(s) for 15 minutes or more, and keep eye wide open while rinsing. If irritation persists, consult a physician (preferably an eye specialist) and show MSDS.

**Skin** Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention

**Ingestion** Do not induce vomiting. Obtain medical attention.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

**General Advice** Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

### Section 5: Fire-fighting Measures

**Extinguishing media:** Use extinguishing media (Foam, CO<sub>2</sub>, dry chemical) appropriate for surrounding fire.

**Specific hazards during firefighting:** Do not allow contaminated water to enter drains or any water sources. Hazardous combustion products may contain: Carbon oxides, silicone compounds, chlorinated compounds.

**Special protective** As in any fire, wear self-contained breathing apparatus

**equipment for firefighters:** pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

## Section 6: Accidental Release Measures

**Personal precautions:** Do not contact with eyes or skin directly. Wear proper personal protective clothing, gloves and equipment. Keep people away from and upwind of spill.

**Environmental precautions:** Do not flush liquid into public sewer, water system or surface waters

**Clean up:** Contain spills immediately with inert sand or earth materials. Transfer liquids and solid material to separate suitable containers for recovery or disposal.

**Other information:** This product may cause the floor to be slippery.

## Section 7: Handling and Storage

**Handling:** Keep container tightly closed. Avoid aerosol formation. Do not breathe vapors, mist or gas. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. No smoking, drinking and eating in application area. Supply sufficient air exchange in application area.

**Storage:** Keep container tightly closed and dry in a cool, well-ventilated place. Reseal and store in upright position when not using. No smoking in storage area. Keep away from strong acid/bases and oxidizing agents.

## Section 8: Exposure Controls/Personal Protection

### Exposure limits:

Exposure limits are listed, if they exist.

Components	CAS	Type	Value	Notes
1-Methyl-2-pyrrolidone	872-50-4	Time Weighted Average (TWA)	400 mg/m3	

## Exposure Controls

<b>Engineering controls:</b>	Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.
<b>Protective measures:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility.
<b>Individual protection measures</b>	
<b>Eye/face protection:</b>	Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed.
<b>Skin protection:</b>	The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Neoprene gloves
<b>Respiratory protection:</b>	Use certified respiratory protection equipment meeting EU requirements (89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Yellowish
<b>Odor</b>	Mild
<b>Density</b>	1.13 (g/ml)
<b>Boiling point</b>	203°C (initial)
<b>Flash point(°C)</b>	91°C
<b>pH</b>	No data available
<b>Viscosity</b>	<5000(25°C, mPas)
<b>Evaporation rate</b>	No data available
<b>Odor threshold</b>	No data available
<b>Water solubility</b>	Immiscible
<b>Lower explosion limit</b>	9.5% (V/V)

<b>Upper explosion limit</b>	1.3% (V/V)
<b>Vapour pressure</b>	No data available
<b>Relative vapor density</b>	No data available
<b>Ignition temperature</b>	245°C
<b>Decomposition temperature</b>	No data available
<b>Non-volatile content</b>	49-53%

NOTE: The physical data above are only typical values and not constitute specification.

## Section 10: Stability and Reactivity

<b>Stability</b>	The materials considered are stable
<b>Substances to avoid</b>	Acids, bases, and strong oxidizing agents
<b>Hazardous reactions</b>	No hazardous reactions with proper storage and handling.
<b>Polymerization</b>	Product will not undergo polymerization.
<b>Hazardous decomposition products</b>	None with proper storage and handling

## Section 11: Toxicological Information

<b>Acute toxicity</b>	
<b>Product:</b>	
<b>Oral:</b>	LD50(Rat): >5000mg/kg Not test, estimated according to single materials.
<b>Inhalation:</b>	No data available
<b>Dermal:</b>	No data available
<b>Skin:</b>	No data available
<b>Eye irritation:</b>	No data available
<b>Sensitization:</b>	No data available
<b>Carcinogenicity:</b>	No data available
<b>Mutagenicity</b>	
<b>Reproductive Cell Mutagenicity:</b>	No data available
<b>Specific Target Organ Systemic Toxicity (Single Exposure)</b>	No data available

<b>Specific Target Organ</b>	No data available
<b>Systemic Toxicity</b>	
<b>(Repeated Exposure)</b>	
<b>Remarks:</b>	May cause skin irritation in susceptible persons.

## Section 12: Ecological Information

### Acute aquatic toxicity

<b>Acute toxicity to fish:</b>	No data available
<b>Acute toxicity to aquatic invertebrates:</b>	No data available
<b>Acute toxicity to algae:</b>	No data available
<b>Acute toxicity to bacteria:</b>	No data available

### Chronic aquatic toxicity

<b>Chronic toxicity to fish:</b>	No data available
<b>Chronic toxicity to aquatic invertebrates:</b>	No data available
<b>Toxicity to soil-dwelling organisms:</b>	No data available
<b>Toxicity to terrestrial plants:</b>	No data available
<b>Toxicity to other non-mammalian terrestrial species:</b>	No data available

### Persistence and Degradability

<b>Biodegradability:</b>	No data available
<b>Physico-chemical removability:</b>	No data available

### Bioaccumulative Potential

<b>Bioaccumulation:</b>	No data available
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### Mobility in Soil

<b>Partition coefficient: n-octanol/water:</b>	No data available
<b>Distribution among environmental compartments:</b>	No data available
<b>Fate and behavior in the environment:</b>	No data available

### Section 13: Disposal Considerations

**Environmental precautions:**

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Disposal:**

For disposal, incinerate or landfill at a permitted facility in accordance with local regulations.

### Section 14: Transport Information

**UN Number**

Not regulated as a dangerous good

**Classification for ROAD and Rail transport:**

Not regulated (Not dangerous for transport)

**Classification for SEA transport (IMO-IMDG):**

Not regulated (Not dangerous for transport)

**Classification for AIR transport (IATA/ICAO):**

Not regulated (Not dangerous for transport)

*Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations*

### Section 15: Regulatory Information

**China. Inventory of Existing Chemical Substances in China (IECSC):**

All intentional components in this product are either listed on the Inventory of Existing Chemical Substances in China (IECSC) or approved for exemption. Production and/or use is limited by the conditions of the exemption.

**United States TSCA Inventory (US.TSCA):**

All components of this product are produced in compliance with the requirements of the U.S. Toxic Substances Control Act (TSCA) and are either listed on or are exempt from listing on the Inventory.

Provisions on the Environmental Administration of New Chemical Substances. General rule of classification and hazard communication of chemicals

Law on Prevention and Control of Environmental Pollution Caused by Solid Waste.

## Section 16: Other Information

### Hazard Rating System.

#### HMIS

Health	Flammability	Reactivity
2	1	0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.