

Material Safety Data Sheet

Section 1: Product and Company Information

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|---------------------------------------|--|
| Product Name | Coadd™ RH-6780 |
| Product Use | Surfactant |
| Company Name | Polywill (Shanghai) Advanced Material Co., Ltd. |
| Street Address | No 3399, Kang-Xin Highway, Building 17. Pudong District, Shanghai, China |
| Telephone | +86-21-20965181 |
| Fax | +86-21-20965197 |
| Emergency response Information | +86-21-20965181 |

Section 2: Hazard Identification

Emergency Overview

| | |
|----------------------------|--------------|
| Physical Appearance | Liquid |
| Colour | Light yellow |
| Odour | Mild |
| Water solubility | Soluble |

Potential Health Effects

| | |
|--------------------------------|--|
| Immediate Concerns | Eye and skin Irritation |
| Eyes | Causes eyes irritation |
| Skin | Causes skin irritation |
| Ingestion | Expected to be a low ingestion hazard |
| Inhalation | No adverse effects due to inhalation are expected. |
| Primary routes of entry | Skin, eyes |

Section 3: Composition/Information on Ingredients

Substance / Mixture: Mixture
Chemical Nature Solution of phosphate ester potassium salt

| Other Components | CAS | Concentration (%) |
|---|------------|-------------------|
| Poly(oxy-1,2-ethanediyl),.alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt | 68186-36-7 | 40-45 |
| 2-(2-n-Butoxyethoxy)ethanol | 112-34-5 | 5-15 |
| Water | 7732-18-5 | 40-55 |

Section 4: First-aid -Measures

Eyes Flush eye(s) for 15 minutes or more, and seek medical advice. If irritation persists, consult a physician (preferably an eye specialist) and show MSDS.

Skin In case of contact with skin wash off immediately with water. Consult a doctor if skin irritation persists.

Ingestion Do not induce vomiting. Never give anything by mouth to unconscious person. Seek medical advice immediately and show this data sheet.

Inhalation Ensure supply of fresh air. In the event of symptoms, seek medical treatment.

General Advice Remove soiled or soaked clothing immediately

Section 5: Fire-fighting Measures

Extinguishing media: Use extinguishing media (foam, CO₂, dry chemical) appropriate for surrounding fire.
Do not use water jet as an extinguisher, as this will spread

the fire

Specific hazards during firefighting:

During fire, gases hazardous to health may be formed.

Special protective equipment for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire

Fire fighting equipment/instructions:

Move containers from fire area if you can do so without risk

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:

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use

Environmental precautions:

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

Handling:

Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices

Storage:

Keep container tightly closed and dry in a cool, well-ventilated place. Reseal and store in upright position when not using.

Section 8: Exposure Controls/Personal Protection

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|---------------------------------------|--|
| Exposure limits: | No exposure limits noted for ingredient(s). |
| Biological limit values: | No biological exposure limits noted for the ingredient(s) |
| Engineering controls: | 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. |
| Protective measures: | Facilities storing or utilizing this material should be equipped with an eyewash facility. |
| Individual protection measures | |
| Eye/face protection: | Safety glasses with side-shields Eye protection worn must be compatible with respiratory protection system employed. |
| Skin protection: | The glove(s) listed below may provide protection against permeation. (Gloves of -other chemically resistant materials may not provide adequate protection): Neoprene gloves |
| Respiratory protection: | 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

| | |
|------------------------------|-------------------|
| Appearance | Liquid |
| Colour | Light yellow |
| Odor | Mild |
| Density(g/ml) | 1.07 |
| Flash point(°C) | Not applicable |
| pH | 5-8(10% solution) |
| Viscosity(25°C, mPas) | <1000 |
| Boiling point(°C) | 100 (water) |

| | |
|---|-------------------|
| Odor threshold | No data available |
| Water solubility | Soluble |
| Lower explosion limit | No data available |
| Upper explosion limit | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Non-volatile content (125°C,30min) | 40-45% |

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

Section 10: Stability and Reactivity

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|---|--|
| Stability | The materials considered are stable |
| Substances to avoid | Contact with incompatible materials |
| Hazardous reactions | No hazardous reactions with proper storage and handling. |
| Polymerization | Product will not undergo polymerization. |
| Hazardous decomposition products | None with proper storage and handling |

Section 11: Toxicological Information

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|-------------------------|--|
| Acute toxicity | |
| Oral: | No data available |
| Inhalation: | No data available |
| Dermal: | No data available |
| Skin: | Causes skin irritation. |
| Eye irritation: | Causes eyes irritation. |
| Sensitization: | No data available |
| Carcinogenicity: | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA |
| Mutagenicity | |

| | |
|--|--------------------------|
| Reproductive Cell Mutagenicity: | No data available |
| Specific Target Organ Systemic Toxicity (Single Exposure) | No data available |
| Specific Target Organ Systemic Toxicity (Repeated Exposure) | No data available |
| Aspiration Hazard | Not an aspiration hazard |

Section 12: Ecological Information

Acute aquatic toxicity

| | |
|---|-------------------|
| Acute toxicity to fish: | No data available |
| Acute toxicity to aquatic invertebrates: | No data available |
| Acute toxicity to algae: | No data available |
| Acute toxicity to bacteria: | No data available |

Chronic aquatic toxicity

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

Persistence and Degradability

| | |
|---------------------------------------|-------------------|
| Biodegradability: | No data available |
| Physico-chemical removability: | No data available |

Bioaccumulative Potential

| | |
|-------------------------|-------------------|
| Bioaccumulation: | No data available |
|-------------------------|-------------------|

Mobility in Soil

| | |
|--|-------------------|
| Partition coefficient: n-octanol/water: | No data available |
| Distribution among | No data available |

**environmental
compartments:**

**Fate and behavior in the
environment:** No data available

Section 13: Disposal Considerations

**Environmental
precautions:**

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

Disposal:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14: Transport Information

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 |
|--------|--------------|------------|
| 1 | 0 | 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.