

# RETENTION AID-POWDER

## Material Safety Data Sheet

OSHA / ANSI Z400.1-2004 Compliant



Date / Revised: 12-05-2007

Release: 1.1

Product: PERCOL 292

### NFPA Hazard codes:

Health: 2                      Fire: 1                      Reactivity: 0                      Special: -

### HMIS III rating

Health: 2                      Flammability: 1                      Physical hazard: 0                      Personal protection: X

HMIS Note: \* Indicates possible chronic health effects.

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Company Information

Company:                      Ciba Corporation  
2301 Wilroy Road  
P.O. Box 820  
Suffolk, VA 23434-0820  
U.S.A.  
Customer Service / Product Information: 1-800-322-3885  
MSDS Request Line 1-800-431-2360

### Emergency information

Emergency 24-Hour                      +1-800-873-1138  
Health/Environmental Phone:  
CHEMTREC:                      (800) 424-9300 (24hrs) or (703) 527-3887

### Product information

Product:                      PERCOL 292  
Use:                      Retention and drainage aid  
Chemical family:                      Cationic polyacrylamide

## 2. Hazards Identification

### Emergency overview

Signal word:                      CAUTION /  
Colour:                      off-white  
Appearance:                      beads  
State of matter:                      solid  
Odour:                      mild  
Health:                      This product is an eye, skin and respiratory irritant.  
Physical/Chemical                      Slipp hazard when wet., Organic powders may be capable of generating static discharges and  
hazards:                      creating explosive mixtures in air. Handle with caution, Refer to MSDS Section 7 for Dust  
Explosion information.

### Potential health effects

#### Primary routes of entry:

Skin, Eyes, Inhalation, Ingestion

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## Potential environmental effects

Releases to the environment are to be avoided.

## 3. Composition/Information on Ingredients

Chemical name	CAS Number	Content (Weight)	Hazardous
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamides (9C)	69418-26-4	80.0 - 90.0 %	Y
Hexanedioic acid	124-04-9	2.0 - 5.0 %	Y
Urea	57-13-6	0.0 - 5.0 %	Y

This material is classified as hazardous under OSHA regulations.

## 4. First-aid Measures

### Inhalation:

Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.

### Skin:

If clothing is contaminated, remove and launder before reuse.  
After contact with skin, wash immediately with plenty of water and soap.  
Get medical attention if irritation occurs.

### Eyes:

Immediately flush the eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed. Get immediate medical attention if irritation persists.

### Ingestion:

Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Seek medical attention immediately.

## 5. Fire-fighting Measures

### Suitable extinguishing media:

carbon dioxide, dry powder, foam

### Unsuitable Extinguishing Media:

If water is used, restrict pedestrian and vehicular traffic in areas where slip hazard may exist., None known

### Hazardous combustion products:

Carbon and nitrogen oxides.

### Hazards during fire-fighting:

Standard procedure for chemical fires.  
The product is slippery when wet.  
The product can form an explosive dust/air mixture. For further information, see Section 7 Explosion Hazards.

### Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

## 6. Accidental Release Measures

### Cleanup:

Wear suitable protective equipment  
Avoid raising dust.  
Sweep up and shovel into suitable containers for disposal.  
Should not be released into the environment.

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Spills are very slippery.  
 Clean up promptly

## 7. Handling and Storage

### Handling

**General advice:**

As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation. Avoid dust formation. Clean up spills promptly

**Protection against fire and explosion:**

Avoid creating dusty conditions. Risk of explosion if an air-dust mixture forms. Avoid creating dust. Organic powders may be capable of generating static discharges and creating explosive mixtures in air. Handle with caution.

### Storage

**General advice:**

Keep container tightly closed in a dry, cool and well-ventilated place. Avoid extremes of temperature. Avoid buildup of dust.

> for industrial use only <

## 8. Exposure Controls and Personal Protection

### Exposure Guidelines

DUST	ACGIH	TWA: 10 mg/m <sup>3</sup> Inhalable particles TWA: 3 mg/m <sup>3</sup> Respirable particles.
	OSHA	PEL: 5 mg/m <sup>3</sup> respirable fraction. PEL: 15 mg/m <sup>3</sup> Total dust
		respirable fraction. Listed
		Total dust Listed
		TWA: 15 millions of particles per cubic foot of air respirable fraction.
		TWA: 50 millions of particles per cubic foot of air Total dust
		TWA: 5 mg/m <sup>3</sup> respirable fraction.
		TWA: 15 mg/m <sup>3</sup> Total dust
	US CA OEL	TWA PEL: 5 mg/m <sup>3</sup> respirable fraction.
		TWA PEL: 10 mg/m <sup>3</sup> Total dust
Hexanedioic-acid- (124-04-9)	ACGIH	TWA value: 5 mg/m <sup>3</sup>

**Engineering Controls:**

Work in well ventilated areas. Do not breathe dust.

**Personal protective equipment**

**Respiratory protection:**

Use NIOSH approved respirator as needed to mitigate exposure.

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**Eye protection:**

Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures.

**Body protection:**

Wear chemical resistant gloves and protective clothing.

**General safety and hygiene measures:**

Eye wash station and safety shower should be available in immediate work area., Select additional protective equipment based upon potential for exposure.

## 9. Physical and Chemical Properties

Colour:	off-white	
Form:	beads	
State of matter:	solid	
Odour:	mild	
pH value:		Not tested
Evaporation rate:		Not tested
Flash point:		Not applicable
Melting point:		Not applicable
Boiling point:		Not applicable
Vapour pressure:		Not tested
Density:		Not applicable
Bulk density:	approx. 800 kg/m <sup>3</sup>	
Vapour density:		Not tested
Partitioning coefficient n-octanol/water (log Pow):		Not applicable
Viscosity, dynamic:		Not tested
Solubility in water:		Forms a viscous solution
Solubility in other solvents:		Not tested

## 10. Stability and Reactivity

**Stability:**

Stable

**Conditions to avoid:** Avoid humidity. Avoid handling conditions that create dust. Avoid all sources of ignition: heat, sparks, open flame.**Substances to avoid:** Strong oxidizing agents, (may degrade polymer)**Possibility of Hazardous Reactions:** No hazardous reactions known.**Hazardous decomposition products:** No decomposition expected under normal storage conditions.

## 11. Toxicological Information

**Acute oral toxicity:**

LD50 / oral / rat: &gt; 2,000 mg/kg

**Acute inhalation toxicity:**

not determined

**Acute dermal toxicity:**

dermal:

not determined

**Skin irritation:**

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not determined

**Eye irritation:**

not determined

**Skin Sensitization:**

not determined

**Chronic toxicity:**

not determined

**Subchronic Toxicity:**

not determined

**Subacute Toxicity:**

not determined

**Genetic toxicity:**

Not determined.

**Carcinogenicity:**

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

**Reproductive toxicity:**

not determined

**Developmental toxicity/teratogenicity:**

not determined

**Neurotoxicity:**

Not determined

## 12. Ecological Information

**Toxicity to fish:**

Fish general (Pisces)/96 h/LC50: 1 - 10 mg/l

**Toxicity to aquatic invertebrates:**

48 h/EC50: 10 - 100 mg/l

**Toxicity to aquatic plants:**

72 h/EC50: 1 - 10 mg/l

**Toxicity to microorganisms:**

Not tested

**Biodegradation:**

Not tested

**Bioaccumulation:**

Considered to be zero due to charge and high molecular weight

**Other ecotoxicological advice:**

This product contains polymer(s) that may be toxic to aquatic organisms when tested in pure (distilled) water. Toxicity is greatly reduced by particles in natural water.

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## 13. Disposal Considerations

### Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

**Resource Conservation and Recovery Act (RCRA):** Not a hazardous waste under RCRA (40 CFR 261).

## 14. Transport Information

### U.S. Department of Transportation

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

### Road transport:

Special shipping information: Not classified as a dangerous good under transport regulations.

### Air transport:

Special shipping information: Not classified as a dangerous good under transport regulations.

### International Air Transport Association (IATA)

Special shipping information: Not classified as a dangerous good under transport regulations.

### International Maritime Dangerous Goods Code (IMDG)

Special shipping information: Not classified as a dangerous good under transport regulations.

## 15. Regulatory Information

Canada: Domestic Substances List (DSL): All components either exempt or listed on the DSL

US: Toxic Substances Control Act (TSCA): All component(s) comprising this product are either exempt or listed on the TSCA inventory

### United States - Regulations

#### SARA Section 311/312 Hazard Communication Standard:

Acute Health:	Y	Fire:	N
Chronic Health:	N	Reactivity:	N
		Sudden release of pressure:	N

#### SARA Section 313 Toxic Chemical List:

This product does not contain any components reportable under Sec 313 (40 CFR 372).

#### OSHA hazard category:

This material is classified as hazardous under OSHA regulations.

#### Toxic Substances Control Act (TSCA) Significant New Use Rule (SNUR):

This product is not subject to a Significant New Use Rule (SNUR).

#### Toxic Substances Control Act (TSCA) Section 5(e) Consent Orders:

This product is not subject to a Section 5(e) Consent Order.

#### Toxic Substances Control Act (TSCA) Section 5(f):

This product is not subject to a Section 5(f)/6(a) rule.

#### Toxic Substances Control Act (TSCA) Section 12(b) Export Notification:

No components listed

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### Clean Air Act - Hazardous Air Pollutants (HAP):

<u>Chemical name</u>	<u>CAS Number</u>	<u>Notification</u>
2-Propenamide	79-06-1	Listed

### Clean Air Act 602 - Ozone Depleting Substances (ODS):

This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

### Clean Water Act - Priority Pollutants (PP):

This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307(2)(1) Priority Pollutant List (40 CFR 401.15)

### Pennsylvania Right to Know:

<u>Chemical name</u>	<u>CAS Number</u>	<u>Notification</u>
Hexanedioic-acid	124-04-9	Environmental hazard.
Hexanedioic-acid	124-04-9	Listed
2-Propenamide	79-06-1	Environmental hazard.
2-Propenamide	79-06-1	Listed

This product contains the following component(s) which are subject to Pennsylvania Right-to-Know disclosure requirement.

### California Proposition 65 - Chemicals Known to the State to Cause Cancer:

<u>Chemical name</u>	<u>CAS Number</u>	<u>Notification</u>
2-Propenamide	79-06-1	Carcinogenic.

WARNING: This product contains a chemical known to the State of California to cause cancer.

### International Regulations

#### Chemical Weapons Convention:

This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

## 16. Other Information

#### Disclaimer:

The information contained herein is based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to such data or information. The user is responsible for determining whether the product is suitable for its intended conditions of use.

END OF DATA SHEET