



## MATERIAL SAFETY DATA SHEET

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### 1. PRODUCT AND COMPANY IDENTIFICATION

FOR MEDICAL AND TRANSPORTATION EMERGENCIES  
 24 Hour INFOTRAC (US and CANADA): **800-535-5053**

**PRODUCT NAME**  
 UNITED 228 FLOCCULANT CONCENTRATE

**USE/DESCRIPTION**  
 Flocculant Concentrate for Wastewater Treatment Facilities

**REVISION DATE**  
 April 6, 2011

#### HMIS III HEALTH (0 = Maximum Safety) **0**

Always follow Label Directions and Cautions.

* Chronic	2 Moderate
4 Severe	1 Slight
3 Serious	0 Minimal

See Hazards Identification Section of this MSDS for more detailed information.

#### PHYSICAL HAZARD (0 = Maximum Safety) **0**

Susceptible to Release of Energy.

4 May detonate-vacate area if materials are exposed to fire.	2 Violent chemical change possible-use hose stream from distance
3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.	1 Unstable if heated-use precaution.
	0 Normally stable.

#### FLAMMABILITY (0 = Maximum Safety) **0**

Susceptibility of Material to Burning.

4 Extremely flammable	1 Must be preheated to burn.
3 Ignites at normal temperature.	0 Will not burn.
2 Ignites when moderately heated.	

**PERSONAL PROTECTION: B**



### 2. COMPOSITION/INFORMATION ON INGREDIENTS

In accordance with Federal Regulation 29 CFR 1910.1200, all materials in this product are considered non-hazardous.

### 3. HAZARDS IDENTIFICATION

**Eyes:** May cause irritation.

**Skin:** Prolonged or repeated contact may cause temporary irritation.

**Inhalation:** Large amounts may cause respiratory irritation to sensitive individuals.

**Ingestion:** Large quantities (more than a few ounces) may cause upset stomach, diarrhea, nausea, and vomiting.

### 4. FIRST AID MEASURES

**Eyes:** Flush with plenty of cool water for at least 15 minutes. If irritation persists, call a physician or poison center.

**Skin:** Wash with soap and water. If irritation develops, call a physician or poison center.

**Inhalation:** Remove to fresh air. Apply CPR if necessary. Call a physician if irritation persists.

**If Swallowed:** DO NOT induce vomiting. Call a physician.

### 5. FIRE FIGHTING MEASURES

**Flash Point (TCC):** None

**Explosive Limits:** Lower (LEL): ND Upper (UEL): ND

**Flame Projection (Aerosol):** NA

**Hazardous Products of Combustion:** When strongly heated, as in a fire, this product may produce oxides of carbon, oxides of nitrogen, and ammonia.

**Fire and Explosion Hazards:** None known.

**Extinguishing Media:** Water spray, Carbon dioxide, Dry chemical.

**Fire Fighting Instructions:** Wear self-contained breathing apparatus w/full protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

**Small Spills:** Flush to sewage drain. This product may cause slippery conditions; rinse thoroughly.

**Large Spills:** Flush to sewage drain. This product may cause slippery conditions; rinse thoroughly.

## 7. HANDLING AND STORAGE

Keep this product in a properly labeled, tightly closed container. Do not allow this product to freeze, as they may split or rupture. To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Safety glasses recommended.

**Skin:** Chemical resistant gloves recommended for prolonged exposure.

**Respiratory:** Normally not required.

**Engineering Controls:** Normally not required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 212°F/100°C    **Specific Gravity:** 1.025 (H<sub>2</sub>O=1)    **Vapor Pressure:** ND    **Melting Point:** ND  
**Vapor Density:** ND    **Evaporation Rate:** 1 (Water=1)    **Solubility in Water:** Miscible    **pH:** 5.5 – 6.5  
**Appearance and Odor:** Colorless liquid with slight scent.

## 10. STABILITY AND REACTIVITY

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition:** When strongly heated, as in a fire, this product may produce oxides of carbon, oxides of nitrogen, and ammonia.

**Chemical Stability:** Stable

**Incompatibility:** Oxidizers such as bleach; material reacts slowly with iron, copper, and aluminum resulting in metal corrosion and product degradation.

## 11. TOXICOLOGICAL INFORMATION

**Carcinogenicity (NTP/IARC/OSHA):** None

**California Proposition 65:** Does this product contain chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm? None

## 12. ECOLOGICAL INFORMATION

ND

## 13. DISPOSAL CONSIDERATIONS

Consult your local, state, provincial and federal regulations for proper disposal guidelines. Disposal regulations may be different for each state and/or locality.

## 14. TRANSPORT INFORMATION

**DOT:** Available upon request

**TDG:** Available upon request

**UN:** Available upon request

## 15. REGULATORY INFORMATION

**VOC (Volatile Organic Compounds):** None

**TSCA (Toxic Substances Control Act):** Listed

**SARA Title III Section 302 EHS:** None

**SARA Title III Section 311/312:** ND

**SARA Title III Section 313 Toxic Chemicals:** None

**WHMIS Classification:**

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations/ WHMIS) and the MSDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF REACH OF CHILDREN.

**UNITED 228 FLOCCULANT CONCENTRATE**

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