





Material Safety Data Sheet # 306

Hercules Chemical Company Inc.
111 South Street
Passaic NJ 07055-7398
Information Telephone: 1-800 221-9330
Internet: www.herchem.com

NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>HEALTH</td><td>1</td></tr><tr><td>FLAMMABILITY</td><td>0</td></tr><tr><td>REACTIVITY</td><td>0</td></tr></table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0		
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	0								

Preparation: 04/26/06

Revision Date: 8/5/08

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Cloroben PT Bio1

Intended Use: Liquid Bioactive Flow Improver

Manufacturer: Hercules Chemical Company, Inc.
111 South Street
Passaic, New Jersey 07055-7398

Information Telephone: (800) 221-9330

Internet: <http://www.herchem.com>

Emergency Phone: CHEMTREC: (800) 424-9300

MSDS Date of Preparation: 07/16/08

2. HAZARDS IDENTIFICATION

This product is a white to off-white, opaque liquid with a spice odor.

Emergency Overview

CAUTION!

Causes irritation to eyes, skin and open wounds.

Inhalation of vapors or mists may cause
mucous membrane and respiratory irritation.

May cause dermatitis and skin sensitization.

Primary route of Exposure: Inhalation, skin, ingestion

Ingestion: Ingestion may cause irritation to the mucous membranes and gastrointestinal tract.

Inhalation: Inhalation of vapors or mists may cause irritation of the nose throat and upper respiratory tract. May cause allergic reaction in sensitive individuals.

Eye: May cause irritation. The bacterial cultures in this product are nonpathogenic; however, they may cause infection to eyes following direct contact. These microorganisms are susceptible to common antibiotics.

Skin: Prolonged contact may cause irritation. Dermatitis and skin sensitization can develop after repeated or prolonged contact. These microorganisms are nonpathogenic, however, contact with open wound may cause infection. These microorganisms are susceptible to common antibiotics.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Bacterial Cultures	Not Applicable	1-5%
Alkanolamide	61791-31-9	1-5%
Alcohol Ethoxylate	68439-46-3	1-5%
Nonionic Surfactant	127087-87-0	1-5%
Water	7732-18-5	90-100%

4. FIRST AID MEASURES

Eye: Immediately flush victim's eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Remove contact lenses if present. Get immediate medical attention.

Skin: Wash with soap and water. Remove contaminated clothing and shoes. Launder clothing before re-use. Get medical attention if irritation or symptoms develop.

Ingestion: If conscious, rinse mouth thoroughly with water and give water or milk to dilute. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Inhalation: Immediately remove victim to fresh air. Get medical attention if breathing becomes difficult.

Other: Note to physician: Bacterial organisms in this product are not pathogenic, but can cause infection in contact with open wound. These organisms are susceptible to commonly used antibiotics.

5. FIRE FIGHTING MEASURES

Flashpoint: None

Autoignition Temperature: Not applicable

Flammable Limits: LEL Not applicable UEL Not applicable

Unusual Fire or Explosion Hazards: None.

Special Fire-Fighting Instructions: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

Hazardous Combustion Products: None.

Explosion Data (sensitivity to mechanical impact or static discharge): None known.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing as described in Section 8. Do not flush spill to sewer. Collect using an inert absorbent material and place in appropriate containers for disposal. Prevent large spills from entering sewers and water courses. Report releases as required by local, provincial and federal authorities.

7. HANDLING AND STORAGE

Handling: Prevent contact with the eyes, skin and clothing. Avoid spraying, splashing and misting conditions. Avoid breathing mists. Do not ingest. Avoid contact with food. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Do not reuse containers. Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

Storage: Store in a cool, dry area away from incompatible materials. Store at room temperature or cooler. Avoid temperatures above 32°C. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines:**

Bacterial Cultures	None Established
Alkanolamide	None Established
Alcohol Ethoxylate	None Established
Nonionic Surfactant	None Established
Water	None Established

Engineering Controls: No special ventilation required for normal use. Avoid spraying or misting conditions.

Respiratory Protection: None required for normal use.

Skin Protection: Wear impervious gloves such as rubber or neoprene if needed to avoid skin contact.

Eye Protection: Chemical safety goggles should be worn where splashing is possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: This product is a white to off-white, opaque liquid with a spice odor.

Physical State: Liquid	Boiling Point: 100°C
Vapor Density: Same as water	Vapor Pressure: Same as water
Solubility In Water: 100%	Evaporation Rate: Not applicable (Buac=1)
Specific Gravity: 1.0	pH: 7.0
Melting Point: 0°C	Octanol/Water Coefficient: Not Determined
VOC Content: None	Viscosity: Not Determined

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage and handling conditions.

Incompatibility: Contact with strong acids, caustics, bleach or other oxidizers and high temperatures may inactivate biological cultures.

Hazardous Decomposition Products: None known.

Extinguishing Media: Use media appropriate for surrounding fire.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION**HEALTH HAZARDS:****Target Organ Effects:**

Sensitization: May cause skin sensitization after prolonged or repeated contact.

Chronic: Prolonged exposure may cause dermatitis.

Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Mutagenicity: None known.

Medical Conditions aggravated by Exposure: Employees with pre-existing eye, skin and respiratory disease or asthma may be at increased risk from exposure.

Acute Toxicity Values: Bacterial Cultures: No toxicity data is available
Alkanolamide: No toxicity data is available
Alcohol Ethoxylate: Oral Rat LD50 – 500-2000 mg/kg ; Skin Rat LD50 >2000 mg/kg;
Inhalation Rat LC50 >20 mg/L/1 hr
Nonionic Surfactant: Oral Rat LD50 1300 mg/kg; Skin Rabbit LD50 2000 mg/kg

12. ECOLOGICAL INFORMATION

No data available for product.

13. DISPOSAL CONSIDERATIONS

Before disposing, rinse container with water. Dispose in accordance with local, state and federal environmental regulations.

14. TRANSPORT INFORMATION

	DOT	TDG	MEX
Proper Shipping Name:	Not regulated for transport	Not regulated for transport	Not regulated for transport
UN Number:	None	None	None
Labels Required:	None	None	None
Hazard Class / Packing Group:	None	None	None

15. REGULATORY INFORMATION**Inventory Status.**

TSCA: Complies

DSL: Complies

U.S. Federal Regulations**SARA 313.**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard No

Chronic Health Hazard No

Fire Hazard No

Sudden Release of Pressure Hazard No

Reactive Hazard No

California Proposition 65

This product contains no chemicals requiring reporting under Proposition 65.

This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

Canadian WHMIS Classification: Class D-2-B (Eye and Skin Irritant). This product complies with TSCA and

WHMIS: Class D-2-B (Eye and Skin Irritant)

16. OTHER INFORMATION

NFPA Rating: Health = 1 Fire = 0 Reactivity = 0

HMIS Rating: Health = 1 Fire = 0 Reactivity = 0

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.