

CHEM INTERNATIONAL**MATERIAL SAFETY DATA SHEET****EMERGENCY #: CANUTEC (613) 996-6666****PRODUCT IDENTIFICATION AND PREPARATION INFORMATION****PRODUCT NAME:** C.I. Chemgest P**EFFECTIVE DATE:** January 12, 2009**WHMIS CLASS:** D2B**T.D.G. CLASSIFICATION:** Not Regulated**MATERIAL USE:** Powder enzyme**HAZARDOUS INGREDIENTS**

INGREDIENTS	CAS #	Wt%	ACGTH-TLV	LC50	LD50
Disodium phosphate (DSP)	7558-79-4	10-15	NA		
Monosodium Phosphate (MSP)	7558-80-4	3-5	NA		
Sodium bicarbonate (SB)	144-55-8	15-20	NA		
Triton X-120 is a blend of:					
-Magnesium carbonates	546.930				
-TX 100	9036-19-5				
Lipase	9001-62-1	2	NA		
Viable bacterial cultures (on wheat bran base)	NA 116469-86-4	50			

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. All chemical ingredients appear on the EPA TSCA Inventory. Values are not product specifications. gt=greater than, lt=less than, na=not available.

PHYSICAL DATA**BOILING POINT(oC):** No data**VAPOUR PRESSURE(mm Hg @200C):**No data**VAPOUR VAPOUR DENSITY (Air=1):** No data**APPEARANCE AND ODOUR:** Free flowing, chalky-colored powder, yeast-like odor.**BULK DENSITY:** Approximately 0.66-0.77 gm/cm³**SOLUBILITY IN WATER:** Moderate- contains viable bacteria. **pH (as supplied):** 6.5-8.5**FIRE AND EXPLOSION DATA****FLAMMABLE LIMITS (STP):** No data**FLASH POINT (and method):** NA; DSP-non-combustible; MSP-slight fire hazard when exposed to heat or flame.**MEANS OF EXTINCTION:** Water spray, carbon dioxide, dry chemical powder.**SPECIAL FIRE FIGHTING PROTECTIVE EQUIPMENT:** Self-contained breathing apparatus with full-face mask operated in pressure-demand or other positive pressure mode.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known**AUTOIGNITION TEMP.:** No data**REACTIVITY DATA****STABILITY:** Stable under normal conditions.**INCOMPATIBILITY:** Solutions may be corrosive toward metals. SB: May react violently with strong acids and release CO₂; 2-furaldehyde is a possible ignition hazard; monammonium phosphate may react with rapid build-up of pressure. Strong acid and alkali compounds may inactivate biological cultures.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition products may include toxic oxides of phosphorus and sodium. SB: Thermal decomposition may include oxides of carbon.**HAZARDOUS POLYMERIZATION:** Will not occur.**FIRST AID****EYE:** Immediately flush with plenty of water for at least 15 minutes and have eyes examined and treated by medical personnel.**SKIN:** Remove contaminated clothing and footwear. Wash the material off the skin with plenty of soap and water for 15 to 20 minutes. Wash clothing and footwear before reuse.**INHALATION:** Remove victim to fresh air. If breathing has stopped, give artificial respiration. Maintain airway and blood pressure and administer oxygen. Keep victim warm and at rest. Get medical attention.**INGESTION:** Treat symptomatically and supportively. Do not induce vomiting. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person.

TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: Eyes, skin contact, inhalation, ingestion

EFFECTS OF ACUTE EXPOSURE:

EYE: Direct contact may cause irritation, pain and possible corneal injury.

SKIN: Contact may produce strong irritation, erythema, pain and blistering. Triton X-120 can be absorbed through the skin.

INHALATION: Inhalation of dust may cause throat irritation and coughing.

INGESTION: May result in abdominal pain, nausea, vomiting, diarrhea, shock, hypotension, slow pulse, and cyanosis, coma and possible convulsions. In the stomach, SB may release CO₂ and cause distension, belching and possible rupture of the stomach.

EFFECTS OF CHRONIC EXPOSURE:

SKIN: Dermatitis.

INGESTION: MSP is used as a food additive with no adverse effects. SB: ingestion of up to 140mg/day for 3 weeks caused fluid retention, alkalosis with an increase in plasma CO₂ and pH.

EYE: Conjunctivitis

INHALATION: No effects reported in humans.

OTHER EFFECTS OF OVEREXPOSURE: Organisms are nonpathogenic but can cause infection when in contact with open wounds. They are susceptible to many common antibiotics.

IRRITANCY: Not specified.

RESPIRATORY TRACT SENSITIZATION: Not specified.

CARCINOGENICITY: Not specified.

REPRODUCTIVE TOXIN: Not specified.

TERATOGENICITY: Not specified.

MUTAGENICITY: Not specified.

SYNERGISTIC MATERIALS: Not specified.

EXPOSURE LIMITS: Not specified.

PREVENTATIVE MEASURES

EYE PROTECTION: Safety glasses recommended if used in a manner that creates dust.

PROTECTIVE CLOTHING: Take all precautions to prevent skin contact. Long-sleeved clothing.

RESPIRATORY PROTECTION: If needed, use MHS-A-NIOSH approved respirator for nuisance dust.

OTHER PROTECTIVE EQUIPMENT: As determined by local, provincial and federal regulations.

VENTILATION: General mechanical ventilation.

LEAK AND SPILL PROCEDURE: Wear approved respirator for nuisance dust during clean up. For small spills flush to waste treatment sewer (product is biodegradable). For large spills contain and collect for reuse.

WASTE DISPOSAL: Disposal of this product and its residues must be in accordance with all local, provincial and federal requirements.

STORAGE REQUIREMENTS & HANDLING PROCEDURES: Prevent skin and eye contact. Avoid creating dust. Use approved respirator.

SPECIAL PROTECTION INFORMATION: TLV OR SUGGESTED CONTROL VALUE: No TLV assigned to this mixture. Control of exposure to below the TLV for the ingredients (see HAZARDOUS INGREDIENTS) will be sufficient. Minimize exposure in accordance with good hygiene practice. Avoid handling which would create large amounts of dust. Use approved respirator for nuisance dust. To maintain shelf life, avoid prolonged exposure to high temperatures and humidity. The ACGIH TLV'S shown in the HAZARDOUS INGREDIENTS section are also OSHA PEL's (Permissible Exposure Limits).

N/AP= NOT APPLICABLE · N/E=NOT ESTABLISHED · N/D=NOT DETERMINED · N/AV=NOT AVAILABLE
<=LESS THAN - >=MORE THAN

HMIS HAZARD RATING INFORMATION

FIRE	REACTIVITY	HEALTH	PERSONAL PROTECTION
1		3	
0 – Minimal, 1- Slight, 2 – Moderate, 3 – Serious, 4 – Extreme.			

DISCLAIMER: Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases, data is not available and is so stated. Since conditions of actual product use are beyond the control of the supplier, it is assumed that the user of this material has been fully trained according to the mandatory requirements of WHIMIS. No warranty, expressed or implied is made, and supplier will not be liable for any losses, injuries, or consequential damage that may result from the use or reliance on any information contained in this form.

CHEM INTERNATIONAL

18043 – 107 Avenue
Edmonton, Alberta
T5S 1K3
1-800-665-7287