

MATERIAL SAFETY DATA SHEET

CHEMCO INDUSTRIES, INC.
5731 Manchester Ave., St. Louis, MO 63110



DATE OF ISSUE: January, 05, 2006

GENERAL INFORMATION # : 314-647-1888
EMERGENCY TELEPHONE # : (800) 854-4236

I-PRODUCT IDENTIFICATION

PERMA GRAN

PRODUCT CODE: #179

CHEMICAL FORMULATION: GRANULAR SOIL STERILANT AND WEED KILLER

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: FLAMMABILITY: REACTIVITY:

HAZARD RATING: 4- Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))	CAS #	OSHA PEL	ACGIHTLV	Other Limits Recommended	% optional
NONE					

NON-HAZARDOUS INGREDIENTS

BROMACIL (5-bromo-3-sec-butyl-6-methyluracil) 314-40-9

SAND

CORNCOB BASED FILLER

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit

N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - PHYSICAL DATA

BOILING POINT (C/F): N/A	MELTING POINT:
VAPOR PRESSURE (mm Hg.)@20C N/A	SPECIFIC GRAVITY (WATER = 1): 60 LB/CU.FT.
CORROSION RATE: N/A	FREEZING POINT: N/A
VAPOR DENSITY (AIR = 1): N/A	VOC CONTENT (% by weight): N/A
SOLUBILITY IN WATER: NEGLIGIBLE	EVAPORATION RATE (Butyl Acetate = 1): N/A
	pH:
APPEARANCE AND ODOR: BUFF COLORED SOLID; NO ODOR	

IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (F/(C)): NONE (TEST METHOD):
FLAMMABLE LIMITS: NONE UPPER: N/A LOWER: N/A
EXTINGUISHING MEDIA: MATERIAL WILL NOT SUPPORT COMBUSTION: USE MEDIA SUITABLE FOR SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES: CONTAINERS INVOLVED IN A FIRE MAY BE COOLED BY APPLYING FLOODING QUANTITIES OF WATER FROM AS FAR A DISTANCE AS POSSIBLE. FIRE FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING SELF-ENCLOSED BREATHING APPARATUS. DO NOT INHALE SMOKE, FUMES, VAPORS OR COMBUSTION PRODUCTS. KEEP RELEASED MATERIAL OUT OF WATER SUPPLIES.

UNUSUAL FIRE AND EXPLOSION HAZARD: CONTAINERS INVOLVED IN A FIRE MAY BURN

V - REACTIVITY DATA

STABILITY:	STABLE
INCOMPATIBILITY:	NONE KNOWN
CONDITIONS TO AVOID:	NONE KNOWN
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:	NONE KNOWN

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NONE

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: PERMA-GRAN

PRODUCT CODE: #179

VI - HEALTH AND HAZARD DATA

ROUTES OF ENTRY: INHALATION? SKIN? INGESTION?

HEALTH HAZARDS (ACUTE & CHRONIC):

CARCINOGENICITY: NTP?NO IARC MONOGRAPHS?NO OSHA REGULATED? NO

EFFECTS OF OVEREXPOSURE

IF IN EYES: EYE IRRITATION

IF ON SKIN: SKIN IRRITATION

IF SWALLOWED:

IF INHALED:

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: RINSE EYE WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

IF ON SKIN: WASH WITH SOAP AND WATER.

IF SWALLOWED: SEEK PHYSICIAN

IF INHALED:

VII - SPILL AND LEAK PROTECTION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: STOP THE FLOW OF MATERIAL. COLLECT MATERIAL BY SWEEPING. DO NOT FLUSH AWAY INTO SEWERS, WATER SOURCES, OR WATERWAYS. AVOID ALL ENVIRONMENTAL CONTAMINATION.

WASTE DISPOSAL METHOD: MATERIAL MAY BE RETURNED TO THE CONTAINER, OR DISPOSED OF ACCORDING TO LABEL INSTRUCTIONS AND RCRA REGULATIONS. DISPOSE OF EMPTY CONTAINER ACCORDING TO RCRA REGULATIONS

VIII - SPECIAL PROTECTION INFORMATION

VENTILATION: Local Exhaust: FRESH AIR Mechanical (General): Special:
Other: N/A

RESPIRATORY PROTECTION: USUALLY NOT REQUIRED

PROTECTIVE GLOVES: RUBBER GLOVES

EYE PROTECTION: GLASSES

OTHER PROTECTIVE EQUIPMENT: TO AVOID SKIN AND CLOTHES CONTACT.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER CLOSED WHEN NOT IN USE. READ ALL LABEL CAUTIONS AND DIRECTIONS BEFORE USE. AVOID ALL SKIN AND EYE CONTACT. CONTAMINATED CLOTHING SHOULD BE WASHED BEFORE REUSE. STORE IN A DRY AREA AWAY FROM FOOD, FEED, SEEDS AND FERTILIZERS. USE ONLY AS SPECIFIED ON THE LABEL. DO NOT MIX WITH OTHER CHEMICALS OR PESTICIDES. STORE ONLY IN ORIGINAL, LABELED CONTAINER. DO NOT CONTAMINATE WATER OR INJURE VEGETATION BY CLEANING OF EQUIPMENT. DO NOT APPLY WHEN CONDITIONS FAVOR DRIFT TO NON-TARGET AREAS.

WORK/HYGIENIC PRACTICES : DO NOT EAT, SMOKE, OR DRINK WHEN USING THIS PRODUCT. WASH HANDS AFTER USE.

REVISION DATE: January 05, 2005

Prepared By:

DATE OF ISSUE: January 05, 2005

This information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Chemco Industries assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material such vendees or users assume all risks associated with the use of this material.