

# Material Safety Data Sheet

**EMERGENCY TELEPHONE No.:**

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**PenPlus® 55**

**DATE OF LAST REVISION: 5/4/2010**

**CAS No.: 9005-25-8**

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## I. PRODUCT IDENTIFICATION

PenPlus® 55

### HMIS RATINGS:

Health Hazard: 0

Fire Hazard: 1

Reactivity Hazard: 0

CHEMICAL NAME: Tapioca Starch

COMMON NAME: Tapioca Starch

APPEARANCE and ODOR: White to off-white powder; odorless

## II. HAZARDOUS INGREDIENTS

No hazardous ingredients. OSHA PEL for respirable dust is 5 mg/m<sup>3</sup> and for total dust is 15 mg/m<sup>3</sup>.

## III. PHYSICAL DATA

BOILING POINT:	N/A	MELTING POINT:	N/A
VAPOR PRESSURE:	N/A	SPECIFIC GRAVITY:	N/A
VAPOR DENSITY:	N/A	% VOLATILE (VOL.):	N/A
WATER SOLUBILITY:	Up to 100% in cold water	EVAPORATION RATE:	N/A

## IV. FIRE, EXPLOSION, & REACTIVITY DATA

FLASH POINT:	N/A	FLAMMABLE LIMITS:	N/A
FIRE EXTINGUISHING MEDIA: Water			

**UNUSUAL FIRE/EXPLOSION HAZARDS, SPECIAL FIRE-FIGHTING PROCEDURES:** This product is a combustible dust and as such is a potential fire hazard/dust explosion hazard. Avoid creation of airborne dust. Fine dust, dispersed in air in sufficient quantities in the presence of an ignition source, is a potential dust explosion hazard. Practice good housekeeping to prevent dust accumulations on overheads and equipment. Avoid sparks, flames and sources of static electricity.

STABILITY CONSIDERATIONS: Stable  
 HAZARDOUS POLYMERIZATION: Will not occur  
 INCOMPATIBLE WITH: Strong oxidizers  
 CONDITIONS TO AVOID: Creation of airborne dust  
 DECOMPOSITION PRODUCTS: CO<sub>2</sub>, H<sub>2</sub>O, and typical combustion by-products.

## V. HEALTH HAZARD INFORMATION

**INHALATION:** This product can produce a nuisance dust which should be kept to a level below the time weighted average of 5 mg/m<sup>3</sup> (respirable portion): 15 mg/m<sup>3</sup> (total). Avoid prolonged or repeated inhalation of dust.

**SKIN CONTACT:** No hazard. Wash skin with water.

**SKIN ABSORPTION:** No known hazard. Wash skin with water.

**EYE CONTACT:** Dust particles may scratch eye surfaces and cause mechanical irritation. Wash out with clean water. If symptoms develop get medical attention.

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INGESTION: Low hazard for typical industrial handling

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### VI. PERSONAL PROTECTION

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VENTILATION: Use local exhaust appropriately wired for dust hazards.

EYE PROTECTION: Recommend safety glasses with side shields as good industrial hygiene practice.

RESPIRATORY PROTECTION: Wear NIOSH approved dust mask in situations where airborne concentrations may exceed the OSHA PEL for nuisance dusts.

SKIN PROTECTION: Gloves are recommended as good industrial hygiene practice.

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### VII. TOXICITY DATA

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CARCINOGENICITY: This material is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or OSHA.

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### VIII. SPILL, LEAK, AND DISPOSAL PROCEDURES

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AQUATIC TOXICITY CLASSIFICATION: N/A

PROCEDURE FOR RELEASE OR SPILL: Wear NIOSH approved dust mask and clean up using methods that minimize the formation of airborne dust.

DISPOSAL METHOD: Small quantities may be swept up and sent to local landfill or washed to sanitary sewer. Larger quantities may require special waste authorizations or controlled release to sanitary sewer. All disposal procedures should be reviewed with state and local regulatory agencies.

NEUTRALIZING CHEMICALS: Not required.

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### IX. HANDLING & STORAGE

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Practice good housekeeping in storage and handling areas. Store away from heat, sparks or other flame sources. Ensure starch handling systems and electrical equipment are designed and maintained in accordance with NFPA, NEC, OSHA, and other standards/regulations. Pneumatic conveying systems should be constructed of electrically conductive materials and properly grounded. Minimize the creation of airborne dust.

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### X. ADDITIONAL REGULATORY CONCERNS:

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This material is not classified as an EPA hazardous waste. Spills of this material are not subject to any special reporting requirements under the Clean Water Act (CWA) or the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). It is recommended that local agencies be contacted on any spill to determine if local or regional reporting requirements have been satisfied. This material is not subject to regulations promulgated under Sections 302, 304, 311, 312, and 313 of the Superfund Amendment and Reauthorization Act of 1986 (SARA, Title III).