

SECTION I NAMEProduct **STARCH, CORN**Chemical Synonyms **Maize Starch**Formula **(C₆H₁₀O₅)_n**Unit(s) Size **100, 500 grams, 2.5 kg.**C.A.S. No. **9005-25-8****SECTION II HAZARDOUS INGREDIENTS OF MIXTURES**Principal Hazardous Component(s) **Starch, Corn (Not hazardous)**

Starch, Corn (Not hazardous)

Low hazard for usual laboratory handling:

non-toxic.

SECTION III PHYSICAL DATA

Melting Point (°F)

Decomposes on heating

Specific Gravity (H₂O = 1) **1.50 at 20°C**

Boiling Point (°F)

Decomposes on heating

Percent Volatile by Volume (%) **13% maximum**

Vapor Pressure (mm Hg)

Negligible as solid

Evaporation Rate **1** Non-volatile (NA)

Vapor Density (Air = 1)

Data not listed

Solubility in Water

Negligible in cold water.

Appearance and Odor

Off-white powder; starch-like odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)

Non-flammable (NA)

Flammable Limits in Air % by Volume UNKNOWN

Lower Upper

Extinguisher Media

Water spray; carbon dioxide (CO₂); dry chemical (ABC).**SPECIAL FIREFIGHTING PROCEDURES**

Combustible dust. Avoid procedures which would cause a dust cloud of the material to be formed. In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Starch dust may form an explosive mixture with air. Avoid conditions which produce dust. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. **NON-REGULATED**

CHEMIFREC 800-424-9300 Day 716-226-6177 Night 716-334-4222		Health	0
NFPA HAZARD RATING LEAST SEVERE MODERATE HIGH EXTREME		Fire	1
		Reactivity	1

**FREY SCIENTIFIC**

905 HICKORY LANE MANSFIELD OHIO 44905

MSDS No.
Effective Date

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V TOXICITY HAZARD DATA

Threshold Limited Value

None established.
Inhalation Particulates - 10 mg/m³ (ACGIH 1983-86).**Effects of Overexposure**

Minimal - Dust may be irritating to nose and eyes.

Emergency and First Aid Procedures

Unlikely to be necessary. Flush eyes with water.
INHALATION: Remove to fresh air. If symptoms of illness develop, get medical attention.

001034**SECTION VI REACTIVITY DATA**

Stability

Unstable

Conditions to Avoid

Excessive temperature or heat. Practices which produce dust.

Incompatibility

Stable

Materials to avoid

Oxidizing agents.

Hazardous Decomposition Products

Combustion will produce carbon dioxide, smoke and probably emits carbon monoxide.

Hazardous Polymerization

May Occur

Will Not Occur

Conditions to Avoid

Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Sweep up, avoiding production of dust and place in a suitable container.

Waste Disposal Method

Uncontaminated material may be disposed of in a sanitary landfill or incinerate.

Discharge, treatment, or disposal may be subject to federal, state, or local laws.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection

None should be needed in normal laboratory use. If dusty, work in fume hood or wear an approved (NIOSH) dust mask.

Ventilation

Local Exhaust

Mechanical(General)

Not needed

Protective Gloves

None needed

Other Protective Equipment

Lab coat, eye wash station, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

Store in a cool, dry place away from oxidizing agents. Wash thoroughly after handling.
Keep container tightly closed when not in use.

Other Precautions

Read label on container before using.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. **10/1**Date **11/28/87**Approved **Walter N. Secord**Chemical Safety Coordinator **W. Secord**

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