1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER................. 50-5113
PRODUCT NAME................... CLEAR-TEX

National Starch & Chemical Company
P.O. Box 6500, Finderne Avenue
Bridgewater, NJ 08807
USA
Emergency Telephone:
908-685-5000 (24 hours)

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY.............. Carbohydrate
NONE HAZARDOUS

3. HAZARDS IDENTIFICATION

Possible physical irritant from dust particles. Potential for dust explosion.

EYE
Particulates may scratch eye surfaces/cause mechanical irritation.

SKIN CONTACT.............. Low order of toxicity.

INHALATION.............. This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m3.

INGESTION.............. No hazard in normal industrial use.

FIRST-AID MEASURES

EYE......................... Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.
FIRST-AID MEASURES  Continued

SKIN CONTACT ..................................... Wash with soap and water
INHALATION ....................................... Remove to fresh air.
INGESTION ......................................... Not applicable.

5. FIREFIGHTING MEASURES

AUTOIGNITION ..................................... See Fire & Explosion Hazards
FLASH POINT ....................................... Not Applicable
EXTINGUISHING MEDIA ............................ Dry chemical; CO2; Water fog; Foam
SPECIAL FIREFIGHTING PROCEDURES .......... No special procedures are required
FIRE & EXPLOSION HAZARDS ..................... Minimum ignition temperature of dust
                                              cloud- approx. 390 C. Minimum
                                              explosive concentration- approx. 70
                                              mg/l. Minimum energy to ignite
                                              cloud by electrical spark- approx.
                                              0.06 joules.

UPPER EXPLOSION LIMIT (%) ............... Not Applicable
LOWER EXPLOSION LIMIT (%) ............... Not Applicable
NFPA FLAMMABILITY HAZARD CLASS ......... 1 = Slight

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES ............... Spills should be taken up with
                                          suitable absorbent and placed in
                                          containers. Spill area can be washed
                                          with water; collect wash water for
                                          approved disposal. Do not flush to
                                          storm sewer or waterway.

For safety and environmental precautions, please review entire Material
Safety Data Sheet for necessary information.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE ....................... Ambient
HANDLING/STORAGE ........................... Normal precautions for "nuisance
dust" should be observed. Avoid
prolonged inhalation of dust. Sweep
up or vacuum up and place in
suitable container for disposal.

VENTILATION REQUIREMENTS ............... General
*** MATERIAL SAFETY DATA SHEET ***

May 21, 1997

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION REQUIREMENTS .................. General
EYE PROTECTION REQUIREMENTS ............... Safety glasses are optional.
GLOVE REQUIREMENTS ......................... Not applicable.
CLOTHING REQUIREMENTS ..................... Not applicable.
WASH REQUIREMENTS ......................... Wash with soap and water
RESPIRATOR REQUIREMENTS .................... NIOSH approved dust mask.

9. PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR MIXTURE ................. Pure
PHYSICAL FORM ................................ Solid
APPEARANCE/ODOR ............................... Powder with starch odor
ODOR THRESHOLD .............................. Not available.
MOLECULAR WEIGHT ........................... >10000
PH AS IS ....................................... Not Applicable
pH IN ( 1% ) SOLUTION ........................ Approx. 7
BOILING POINT ................................ Not Applicable
MELTING/FREEZING POINT ..................... Not Applicable
SOLUBILITY IN WATER ......................... Soluble
PARTITION COEFFICIENT ....................... Not Applicable
   (n-octanol/water) ..........................
SPECIFIC GRAVITY (WATER=1) ................. 1.500
EVAPORATION RATE ........................... Not Applicable
VAPOR PRESSURE (mmHg) ...................... Not Applicable
VAPOR DENSITY (air = 1) ..................... Not Applicable
VOLATILES .................................. None.
AUTOIGNITION ................................ See Fire & Explosion Hazards
FLASH POINT ................................. Not Applicable
OXIDIZING PROPERTIES ....................... Not Applicable

10. STABILITY AND REACTIVITY

STABILITY ..................................... Stable
MATERIALS TO AVOID ......................... None.
NFPA REACTIVITY HAZARD CLASS ............. 0 = Insignificant
HAZARDOUS DECOMPOSITION PRODUCTS ...... This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.
11 TOXICOLOGICAL INFORMATION

CHRONIC (LONG TERM) EFFECTS OF EXPOSURE

ROUTE OF ENTRY

Eye contact; Skin contact;
Inhalation; Ingestion

EFFECTS OF CHRONIC EXPOSURE

None.

TARGET ORGANS

Not Applicable

CARCINOGEN

No.

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS

Waste disposal should be in accordance with existing federal, state and local environmental regulations.

EMPTY CONTAINER WARNINGS

Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

14 TRANSPORTATION INFORMATION

DOT INFORMATION

Not Applicable

15. REGULATORY INFORMATION

TSCA

On TSCA Inventory

FUA

Not Applicable

SARA/TITLE III

This product contains no substances at or above the reporting threshold under Section 313, based on data available.

The information given and the recommendations made herein apply to our
product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

16. OTHER INFORMATION

MSDS DATE: June 8, 1994

FOR REGULATORY INFORMATION, CONTACT:
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