
MATERIAL IDENTIFICATIONDU PONT HOLOGRAPHIC RECORDING FILMS

OmniDex is a pending trademark of Du Pont.

Revision Date : 23-Aug-90
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Du Pont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

PRODUCT INFORMATION : 1-(800) 441-7515
TRANSPORT EMERGENCY : 1-(800) 424-9300 (CHEMTREC)
MEDICAL EMERGENCY : 1-(800) 441-3637

TRADE NAMES / SYNONYMS

OmniDex (TM) 352 HOLOGRAPHIC RECORDING FILM
OmniDex (TM) GA1 CUSTOM COLOR KIT
OmniDex (TM) GA2 CUSTOM COLOR KIT
150 HOLOGRAPHIC RECORDING FILM
160 HOLOGRAPHIC RECORDING FILM
410 HOLOGRAPHIC RECORDING FILM
420 HOLOGRAPHIC RECORDING FILM
500 HOLOGRAPHIC RECORDING FILM
500E HOLOGRAPHIC RECORDING FILM
600 HOLOGRAPHIC RECORDING FILM
610 HOLOGRAPHIC RECORDING FILM
700 HOLOGRAPHIC RECORDING FILM
705 HOLOGRAPHIC RECORDING FILM
710 HOLOGRAPHIC RECORDING FILM-----
COMPONENTS

<u>Material</u>	<u>CAS Number</u>	<u>%</u>
POLYMER		40-70
ACRYLATES		10-30
N-VINYL CARBOZOLE	1484-13-5	5-10
PHOTOINITIATOR COMPONENTS		5-10
PLASTICIZERS		0-10

PHYSICAL DATA
-----Form : photopolymer between two sheets of
flexible film

HAZARDOUS REACTIVITY

Instability : Stable at normal temperatures and storage conditions.
Decomposition : Decomposition will not occur.
Polymerization : Polymerization can occur. Conditions leading to polymerization are exposure to UV or visible light.

FIRE AND EXPLOSION DATA

No Information Available.

FIRE AND EXPLOSION HAZARDS

Hazardous gases and vapors may be produced in a fire.

EXTINGUISHING MEDIA

Use media appropriate for surrounding material.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Evacuate personnel to a safe area. Keep personnel removed & upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

HEALTH HAZARD INFORMATION

THIS PRODUCT CAN BE USED SAFELY WHEN APPLICABLE PRECAUTIONS ARE USED.

The unimaged film may cause skin and eye irritation and skin sensitization.

N-vinyl carbazole has tested positive as a mutagen by the Salmonella/Ames Gene Mutation Test and by the Mouse Micronucleus Test. The oral LD50 for N-vinyl carbazole is 1600 mg/kg in rats. The unimaged film contains 1-3 mg of N-vinyl carbazole/square inch of film.

Volatile organic compounds (V.O.C.) including N-vinyl carbazole are emitted during heat processing of the film.

Estimated V.O.C. emitted during heat processing at 100 deg C for 30 minutes:

Without cover sheet

V.O.C. = 2 pounds/million square inches of film

With cover sheet intact

V.O.C. = 0.5 pounds/million square inches of film

Trace amounts of residual N-vinyl carbazole remain in the fully processed film. Articles made from fully processed holographic films should be adequately sealed to prevent direct and/or prolonged skin contact.

(HEALTH HAZARD INFORMATION - Continued)

CARCINOGENICITY

None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

EXPOSURE LIMITS

DU PONT HOLOGRAPHIC RECORDING FILMS

TLV (ACGIH) : None Established
PEL (OSHA) : None Established

SAFETY PRECUATIONS

Wash thoroughly after handling.

FIRST AID

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

Consult a physician.

NOTES TO PHYSICIAN

No specific intervention required. Treat symptomatically.

PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES AND PROCEDURES

Use only with adequate ventilation.

During heat processing, use convection oven with forced-air exhaust to minimize exposure to vapors.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face : Safety glasses.
Protective Gloves : Should be worn while handling both the uncured and the fully processed unprotected photopolymer layer.

DISPOSAL INFORMATION

SPILL, LEAK, OR RELEASE

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Pick up and hold for proper disposal.

WASTE DISPOSAL

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Date of latest Revision : 90/08/23
Responsibility for MSDS : ANDREW M. WEBER
OPTICAL ELEMENT VENTURE
IMAGING SYSTEMS DEPARTMENT
EXPERIMENTAL STATION
302-695-4161

End of MSDS

708 234-3100
ext, 342