



I – Identification of the Substance and of the Company

SUPPLIER: RMO, Inc.
650 W. Colfax Ave.
Denver, CO 80204
303-592-8200

Trade Name and Synonyms – Acetate
Film, Cephalometric Tracing Acetate
Description: Ortho / Trace

Emergency Information Chemtrec: 800-424-9300
Chemtrec International: 202-483-7616

Product Grade / Name:
CELLULOSE DIACETATE

II – Composition / Information on Ingredients

Material is derived from natural resources. The principle components are cellulose diacetate (CA), and diethyl phthalate (DEP).

III – Hazards Identification

Material of this type has been widely used for many years, with no adverse reactions reported.
Potential Hazards: Clear, smooth flat sheets: similar safety hazards to paper.
Fire and Explosion Hazard: Supports combustion.
Decomposition Products: Carbon monoxide, carbon dioxide, acetic acid, water.

IV – First Aid Measures

Routes of Entry:

Inhalation	Not applicable
Skin Contact	No adverse effects anticipated
Eye Contact	No adverse effects anticipated
Ingestion	No adverse effects anticipated

V – Fire Fighting Measures

Flash Point: N/A
Flammable Limits in Air: N/A
Extinguishing Media: Carbon dioxide, water spray, foam, sand, or dry chemical.
Special Fire Fighting Procedures: Wear self contained breathing apparatus and complete personal protective equipment when potential exposure to products of combustion exists.
Unusual Hazards: Acetate film will burn if exposed to flame. The exact composition of the combustion products is unknown and will be dependent upon the conditions of the combustion.

VI – Accidental Release Measures

Contain and remove by mechanical means.

VII – Handling and Storage

Avoid wide variations in temperature and humidity. Store at room temperature (59-73 °F) with relative humidity (40-65 %) on a flat surface to reduce curling of the film sheets. Avoid exposure to ketone and ester solvent vapors such as acetone or ethyl acetate. Do not store in bright sunlight.

VIII – Exposure Controls / Personal Protection

None required under normal conditions of use.

Special precautions to be taken when handling:

Ventilation:

Adequate ventilation is required to maintain exposures to the plasticizers and solvents below the recommended limits.

Gloves:

Acetate film may have sharp edges. Use gloves when handling large quantities of film.

IX – Physical and Chemical Properties

Specific Gravity (water = 1): 1.3

Solubility in Water: Insoluble

Appearance: Flat sheet film. May be clear or white, glossy or matte.

Odor: Odorless

Flow Temperature: N/A

Viscosity: N/A

X – Stability and Reactivity

Stability:

Unstable () Stable (X)

Conditions to Avoid:

Incompatibility:

Material to Avoid:

Hazardous Decomposition Products:

At 250°C and above, the decomposition products include acetic acid, carbon dioxide, carbon monoxide, methane, hydrogen, acetaldehyde and acetone.

HMIS Ratings: Health: 0 / Flammability: 0 / Reactivity: 0

XI – Toxicological Information

Material of this type has been used for many years. There have been no chronic, short or long term effects reported. Specific toxicological tests on Acetate films have not been conducted. However, practical experience and literature surveys for the key components reveal the following information:

Inhalation:

No applicable

Ingestion / Oral Toxicity (LD50):

8600 mg/kg (rat) for Cellulose diacetate 9000 mg/kg (rat) for DEP

Skin Sensitivity:

No adverse effects anticipated

Eye Contact:

Normal discomfort resulting from foreign bodies in the eye.

XII – Ecological Information

The film is derived from natural cellulose sources, cotton linters and wood pulp. Biodegradation studies indicate around 15% (by Wt) of film is lost over 28 days. This is thought to be largely due to the DEP biodegradation. The two primary constituents of film (cellulose diacetate and DEP) have long since been recognized as biodegradable.

XIII – Disposal Considerations

In accordance to Federal, State, or Local Regulations. Acetate film can be recycled, incinerated or land filled. There are no known dangers resulting from these methods of disposal. Incineration produces no toxic by-products.

XIV – Transportation Information

Not regulated as a hazardous material.

XV – Regulatory Information

None

XVI – Other Information

Note: While the information and recommendations set forth on this data sheet are believed to be accurate as received from our suppliers, RMO, Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.