



## CUDNER & O'CONNOR CO.

### Safety Data Sheet BC-37706 HI COVER WHITE

---

#### SECTION 1: Identification

##### 1.1 Product identifier

Product name	BC-37706 HI COVER WHITE
Product number	BC-37706
Brand	CANDOC

##### 1.2 Other means of identification

White Printing Ink

##### 1.3 Recommended use of the chemical and restrictions on use

Uses : Printing Ink

##### 1.4 Supplier's details

Name	Cudner & O'Connor Co.
Address	4035 West Kinzie St Chicago, IL 60624 USA
Telephone	773-826-0200
Fax	773-826-0477
email	CANDOC1@AOL.COM

##### 1.5 Emergency phone number(s)

800-535-5053

---

#### SECTION 2: Hazard identification

##### 2.1 Classification of the substance or mixture

- Flammable liquids (chapter 2.6), Cat. 3
- Acute toxicity, dermal (chapter 3.1), Cat. 5
- Acute toxicity, inhalation (chapter 3.1), Cat. 5
- Acute toxicity, oral (chapter 3.1), Cat. 5
- Eye damage/irritation (chapter 3.3), Cat. 2A

##### 2.2 GHS label elements, including precautionary statements

Pictogram

**Safety Data Sheet**  
**BC-37706 HI COVER WHITE**



**Signal word**

**Danger**

**Hazard statement(s)**

H226	Flammable liquid and vapor
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H319	Causes serious eye irritation
H333	May be harmful if inhaled

**Precautionary statement(s)**

P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting and equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P312	IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use foam, alcohol foam, CO <sub>2</sub> , dry chemical, water fog to extinguish.
P403+P235	Store in a well ventilated place. Keep cool.
P501	Dispose of in accordance with local, county, state, provincial and federal regulations.

**2.3 Other hazards which do not result in classification**

---

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Hazardous components**

**1. ETHYLENE GLYCOL MONOBUTYL ETHER**

Concentration 20 - 25 %

Other names / synonyms 2-BUTOXY-1-ETHANOL; 2-BUTOXYETHANOL; BUTOXYETHANOL; BUTYL CELLOSOLVE; BUTYL GLYCOL; GLYCOL BUTYL ETHER; GLYCOL ETHER EB; GLYCOL MONOBUTYL ETHER; MONOBUTYL GLYCOL ETHER; N-BUTOXYETHANOL

EC no. 203-905-0

CAS no. 111-76-2

Index no. 603-014-00-0

# Safety Data Sheet

## BC-37706 HI COVER WHITE

- Acute toxicity (chapter 3.1), Cat. 4
- Eye damage/irritation (chapter 3.3), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 2

H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

### 2. Nitrocellulose

Concentration 10 - 15 %

Other names / synonyms Cellulose, nitrate; Collodion, dry; Nitrocellulose, dry or wetted with less than 25 percent water (or alcohol), by m

CAS no. 9004-70-0

- Flammable solids (chapter 2.7), Cat. 1

H228 Flammable solid

### 3. ISOPROPANOL

Concentration 5 - 10 %

Other names / synonyms 2-PROPANOL; 2-PROPYL ALCOHOL; ISOPROPYL ALCOHOL

EC no. 414-810-0

CAS no. 67-63-0

Index no. 607-403-00-6

- Flammable liquids (chapter 2.6), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

H225 Highly flammable liquid and vapor

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

### 4. Resin acids and Rosin acids, hydrogenated, Me esters

Concentration 5 - 10 %

CAS no. 8050-15-5

### 5. Castor oil, oxidized

Concentration 5 - 10 %

EC no. 269-128-4

CAS no. 68187-84-8

### 6. 1,4-Benzenedicarboxylic acid, 1,4-bis(2-ethylhexyl) ester

Concentration < 0 - 5 %

CAS no. 6422-86-2

**Safety Data Sheet**  
**BC-37706 HI COVER WHITE**

**7. POLYDIMETHYLSILOXANES**

Concentration < 0 - 5 %  
Other names / synonyms silicon oil; Siloxanes and Silicones, di-Me  
CAS no. 63148-62-9

**8. Soybean oil, polymd, oxidized**

Concentration < 0 - 5 %  
CAS no. 68152-81-8

**9. TITANIUM DIOXIDE**

Concentration 40 - 45 %  
Other names / synonyms 1700 WHITE; A-FIL CREAM; ANATASE; ATLAS WHITE TITANIUM DIOXIDE; AUSTIOX; AUSTIOX R-CR 3; BAYERITIAN; BAYERTITAN; BAYERTITAN A; BAYERTITAN R-U-F; BAYTITAN; BROOKITE; C.I. 77891; C.I. PIGMENT WHITE 6; CAB-O-TI; CALCOTONE WHITE T; COSMETIC WHITE C47-5175; COSMETIC WHITE C47-9623; FLAMENCO; HOMBITAN; HOMBITAN R 101D; HOMBITAN R 610K; HORSE HEAD A-410; HORSE HEAD A-420; HORSE HEAD R-710; KH360; KRONOS; KRONOS 2073; KRONOS CL 220; KRONOS RN 40P; KRONOS RN 56; KRONOS TITANIUM DIOXIDE; LEVANOX WHITE RKB; NCI-CO4240; OCTAHEDRITE; P 25; P 25 (OXIDE); R 680; RAYOX; RO 2; RUNA ARH 20; RUNA ARH 200; RUNA RH20; RUTILE; RUTIOX CR; TI-PURE; TI-PURE R 101; TI-PURE R 900; TI-PURE R 901; TI-PURE R 915; TIOFINE; TIONA T.D.; TIOXIDE; TIOXIDE AD-M; TIOXIDE R-CR; TIOXIDE R-SM; TIOXIDE R.XL; TIOXIDE RHD; TIOXIDE RSM; TIPAQUE; TIPAQUE R 820; TITAFRANCE; TITAN WHITE; TITANIA; TITANIC ACID ANHYDRIDE; TITANIC ANHYDRIDE; TITANIC OXIDE; TITANIUM OXIDE; Titanium oxide (TiO<sub>2</sub>); TITANIUM PEROXIDE; TITANIUM WHITE; TITANIUM(IV) OXIDE; TITANIUMDIOXIDE; TITANOX; TITANOX 2010; TITANOX RANC; TRIOXIDE(S); TRONOX; UNITANE; UNITANE O-110; UNITANE O-220; UNITANE OR 450; UNITANE OR 572; UNITANE OR 650; UNITANE OR-150; UNITANE OR-340; UNITANE OR-342; UNITANE OR-350; UNITANE OR-540; UNITANE OR-640; ZOPAQUE; ZOPAQUE LDC  
CAS no. 13463-67-7

**10. Stoddard solvent**

Concentration 5 - 10 %  
CAS no. 8052-41-3

- Flammable liquids (chapter 2.6), Cat. 4
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 4
- Acute toxicity, dermal (chapter 3.1), Cat. 5
- Acute toxicity, inhalation (chapter 3.1), Cat. 5
- Acute toxicity, oral (chapter 3.1), Cat. 5
- Eye damage/irritation (chapter 3.3), Cat. 2A

H226 Flammable liquid and vapor  
H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H319 Causes serious eye irritation

# Safety Data Sheet

## BC-37706 HI COVER WHITE

H333 May be harmful if inhaled

### 11. 1,2,4-Trimethylbenzene

Concentration < 0 - 1 %

Other names / synonyms Benzene, 1,2,4-trimethyl-; Pseudocumene; TRIMETHYLBENZ;  
Trimethylbenzene, 1,2,4-

EC no. 202-436-9

CAS no. 95-63-6

Index no. 601-043-00-3

- Flammable liquids (chapter 2.6), Cat. 3
- Acute toxicity (chapter 3.1), Cat. 4
- Eye damage/irritation (chapter 3.3), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2

H226 Flammable liquid and vapor  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H332 Harmful if inhaled  
H335 May cause respiratory irritation  
H411 Toxic to aquatic life with long lasting effects

---

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact Wash off with soap and plenty of water.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Personal protective equipment for first-aid responders  
Wear self-contained breathing apparatus for firefighting if necessary.

### 4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in section 3.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

---

## SECTION 5: Fire-fighting measures

# Safety Data Sheet

## BC-37706 HI COVER WHITE

### 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Specific hazards arising from the chemical

Carbon oxides

### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Further information

Use water spray to cool unopened containers.

---

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Specific end use(s)

Apart from the uses mentioned in section 1.3 no other specific uses are stipulated

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. 2-Butoxyethanol (CAS: 111-76-2)

PEL (Inhalation): 240 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 2. 2-Butoxyethanol (CAS: 111-76-2)

PEL (Inhalation): 20 ppm (Cal/OSHA)

# Safety Data Sheet

## BC-37706 HI COVER WHITE

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 3. 2-Butoxyethanol (CAS: 111-76-2)

REL (Inhalation): 5 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 4. Isopropyl alcohol (CAS: 67-63-0)

PEL (Inhalation): 400 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 5. Isopropyl alcohol (CAS: 67-63-0)

PEL (Inhalation): 980 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 6. Isopropyl alcohol (CAS: 67-63-0)

PEL (Inhalation): 400 ppm, (ST) 500 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 7. Isopropyl alcohol (CAS: 67-63-0)

REL (Inhalation): 400 ppm, (ST) 500 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 8. 2-methoxy-1-methylethyl acetate (CAS: 108-65-6 EC: 203-603-9)

TWA (Inhalation): 100 ppm

### 9. 2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5 EC: 203-961-6)

TWA (Inhalation): 10ppm (ACGIH)

### 10. Titanium dioxide - Total dust (CAS: 13463-67-7)

PEL (Inhalation): 15 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 11. Titanium dioxide - Total dust (CAS: 13463-67-7)

PEL (Inhalation): See PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 12. Titanium dioxide - Total dust (CAS: 13463-67-7)

REL (Inhalation): Ca, (ultrafine particles), 2.4 mg/m<sup>3</sup> (fine), 0.3 mg/m<sup>3</sup> (ultrafine), See Appendix A, See Appendix C (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 13. Stoddard solvent (CAS: 8052-41-3 EC: 232-489-3)

TWA (Inhalation): 100ppm (ACGIH)

### 14. Stoddard solvent (CAS: 8052-41-3 EC: 232-489-3)

TWA (Inhalation): 350mg/m<sup>3</sup> TWA20000 mg/3 IDLH (OSHA)

## 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 8.3 Individual protection measures, such as personal protective equipment (PPE)

### Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# Safety Data Sheet

## BC-37706 HI COVER WHITE

### Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Environmental exposure controls

Do not let product enter drains.

---

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	Viscous Liquid
Odor	Characteristist Solvent Odor
Odor threshold	No Data
pH	No Data
Melting point/freezing point	No Data
Initial boiling point and boiling range	No Data
Flash point	90 F
Evaporation rate	Slower than Ether
Flammability (solid, gas)	
Upper/lower flammability limits	24.6
Upper/lower explosive limits	.6
Vapor pressure	No Data
Vapor density	Heavier than Air
Relative density	12.07lbs
Solubility(ies)	None Soluable
Partition coefficient: n-octanol/water	No Data
Auto-ignition temperature	No Data
Decomposition temperature	No Data
Viscosity	No Data
Explosive properties	No Data
Oxidizing properties	No Data

### Other safety information

VOC WEIGHT 32.16%  
VOC VOLUME 53.70%  
VOC 3.85 LBS/GAL

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This product has not been tested as a mixture, see Section 3: Hazards Identification

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None anticipated during normal use and storage.



# Safety Data Sheet

## BC-37706 HI COVER WHITE

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Bases, amines, alkali metals, metals, permanganates, e.g. potassium permanganate, fluorine, metal acetylides, hexalithium disilicide

### 10.6 Hazardous decomposition products

This product has not been tested as a mixture, see Section 3: Hazards Identification

---

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### Skin corrosion/irritation

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### Serious eye damage/irritation

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### Respiratory or skin sensitization

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### Germ cell mutagenicity

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### Carcinogenicity

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### Reproductive toxicity

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### Summary of evaluation of the CMR properties

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### STOT-single exposure

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### STOT-repeated exposure

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### Aspiration hazard

This product has not been tested as a mixture, see Section 3: Hazards Identification

#### Additional information

This product has not been tested as a mixture, see Section 3: Hazards Identification

---

## SECTION 12: Ecological information

### Toxicity

# Safety Data Sheet

## BC-37706 HI COVER WHITE

This product has not been tested as a mixture, see Section 3: Hazards Identification

### **Persistence and degradability**

This product has not been tested as a mixture, see Section 3: Hazards Identification

### **Bioaccumulative potential**

This product has not been tested as a mixture, see Section 3: Hazards Identification

### **Mobility in soil**

This product has not been tested as a mixture, see Section 3: Hazards Identification

### **Results of PBT and vPvB assessment**

This product has not been tested as a mixture, see Section 3: Hazards Identification

### **Other adverse effects**

This product has not been tested as a mixture, see Section 3: Hazards Identification

---

## **SECTION 13: Disposal considerations**

### **Disposal of the product**

Dispose of in accordance with local, county, state, provincial and federal regulations. Emptied containers may retain hazardous properties. Empty containers should be disposed of in an environmentally safe manner in accordance with applicable local regulations.

### **Disposal of contaminated packaging**

Dispose of as unused product properly.

### **Waste treatment**

Not Applicable

### **Sewage disposal**

Not Applicable

### **Other disposal recommendations**

Dispose of in accordance with local, county, state, provincial and federal regulations. Emptied containers may retain hazardous properties. Empty containers should be disposed of in an environmentally safe manner in accordance with applicable local regulations.

---

## **SECTION 14: Transport information**

### **DOT (US)**

UN Number: 1210

Class: 3

Packing Group: III

Proper Shipping Name: Printing Ink

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

### **IMDG**

UN Number: 1210

Class: 3

Packing Group: III

EMS Number:

# Safety Data Sheet

## BC-37706 HI COVER WHITE

Proper Shipping Name: Printing Ink

### IATA

UN Number: 1210

Class: 3

Packing Group: III

Proper Shipping Name: Printing Ink

---

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### New Jersey Right To Know Components

Common name 2-Butoxy Ethanol, Isopropyl Alcohol, Cellulose Nitrate, 2-(2-Butoxyethoxy) ,Stoddard Solvent, 1,2,4 Triemethylbenzene,TITANIUM DIOXIDE

#### Massachusetts Right To Know Components

Common name 2-Butoxy Ethanol, Isopropyl Alcohol, Cellulose Nitrate, 2-(2-Butoxyethoxy) ,Stoddard Solvent, 1,2,4 Triemethylbenzene

#### Pennsylvania Right To Know Components

Cellulose Nitrate, Isopropyl Alcohol ,2-(2-Butoxyethoxy), 2-Butoxy Ethanol,

#### SARA 311/312 Hazards

Cellulose Nitrate, Isopropyl Alcohol , 2-(2-Butoxyethoxy) ethanol, 2-Propanol, 1-methoxy-, 2-acetate

#### SARA 313 Components

Common Name : Isopropyl Alcohol, 2-(2-Butoxyethoxy) ethanol, 2-Butoxy Ethanol,

#### HMIS Rating

Health	2
Flammability	3
Physical hazard	1
Personal protection	B

#### NFPA Rating

Health hazard	2
Fire hazard	3
Reactivity hazard	1
Special hazard	

---

## SECTION 16: Other information

### 16.1 Further information/disclaimer

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Carcinogenicity: In February 2006 IARC concluded, "There is inadequate evidence in humans for the carcinogenicity of titanium dioxide." Based on rat inhalation studies IARC concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide," IARC's overall evaluation was that "Titanium dioxide is possibly carcinogenic to humans (Group 2b)".

This conclusion was based on IARC's guidelines which require such a classification if two or more independent studies in one species carried out at different times or in different laboratories or under different protocols show evidence of tumours.

**Safety Data Sheet**  
**BC-37706 HI COVER WHITE**

**16.2 Preparation information**

The information and recommendations contained in this Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. No warranty, guarantee or representation is made. The user of this product must decide what safety measures are necessary to safely use this product either alone or in combination with other products and determine its environmental regulatory compliance obligations under any federal, state or local laws.