



## CUDNER & O'CONNOR CO.

### Safety Data Sheet CA-1 WHITE

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#### SECTION 1: Identification

##### 1.1 Product identifier

Product name	CA-1 WHITE
Product number	CA-1
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

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#### 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

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### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Component	Concentration
<b>2-methoxy-1-methylethyl acetate (CAS no.: 108-65-6; EC no.: 203-603-9; Index no.: 607-195-00-7)</b>	<b>30 - 35 %</b>
CLASSIFICATIONS: Flammable liquids (chapter 2.6), Cat. 3; Eye damage/irritation (chapter 3.3), Cat. 2. HAZARDS: H226 - Flammable liquid and vapor; H319 - Causes serious eye irritation.	
<b>DIMETHYL SUCCINATE (CAS no.: 106-65-0)</b>	<b>15 - 20 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>Hexanedioic acid, 1,6-dimethyl ester (CAS no.: 627-93-0)</b>	<b>15 - 20 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
<b>TITANIUM DIOXIDE (CAS no.: 13463-67-7)</b>	<b>20 - 25 %</b>
CLASSIFICATIONS: Acute toxicity, inhalation (chapter 3.1), Cat. 5. HAZARDS: No data available.	
<b>Cellulose acetate (CAS no.: 9004-35-7)</b>	<b>5 - 10 %</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

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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.

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### SECTION 5: Fire-fighting measures

#### 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.

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### 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.

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### SECTION 7: Handling and storage

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### 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.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### CAS: 108-65-6 (EC: 203-603-9)

2-methoxy-1-methylethyl acetate  
100 ppm TWA inhalation

#### CAS: 13463-67-7

Titanium dioxide - Total dust  
Ca/OSHA: See PNOR PEL inhalation; NIOSH: 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 REL inhalation; OSHA: 15 mg/m<sup>3</sup> PEL inhalation

### 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.

#### 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).

#### Thermal hazards

Thermal breakdown during fire or very high heat conditions may release Carbon Oxides, formaldehyde, silicon dioxide and incompletely burnt hydrocarbons.

#### Environmental exposure controls

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Do not let product enter drains.

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### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	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	114 F
Evaporation rate	Slower than Ether
Flammability (solid, gas)	
Upper/lower flammability limits	12.6
Upper/lower explosive limits	.88
Vapor pressure	No Data
Vapor density	Heavier than Air
Relative density	10.24 lbs
Solubility(ies)	Not 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	

#### Other safety information

VOC WEIGHT 66.41%  
VOC VOLUME 80.55%  
VOC 6.83 LBS/GAL

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### 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.

#### 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

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### SECTION 11: Toxicological information

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### 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

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DIBASIC ESTER: \*TOXICITY:  
typ. dose mode specie amount units other  
Not available

\*AQTX/TLM96: Not available

\*SAX TOXICITY EVALUATION:  
THR: Not available

\*CARCINOGENICITY: Not available

\*MUTATION DATA: Not available

\*TERATOGENICITY: Not available

\*STANDARDS, REGULATIONS & RECOMMENDATIONS:

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OSHA: None  
ACGIH: None  
NIOSH Criteria Document: None  
NFPA Hazard Rating: Health (H): None  
Flammability (F): None  
Reactivity (R): None

\*OTHER TOXICITY DATA: Not available

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TITANIUM DIOXIDE: \*TOXICITY:  
typ. dose mode specie amount units other  
Not available

\*AQTX/TLM96: Not available

\*SAX TOXICITY EVALUATION:

THR: An experimental carcinogen, neoplastigen and tumorigen. A human skin irritant. A common air contaminant and nuisance dust.

\*CARCINOGENICITY:

Tumorigenic Data:

TCLo: inh-rat 250 mg/m<sup>3</sup>/6H/2Y-I

TDLo: ims-rat 360 mg/kg/2Y-I

TD : ims-rat 260 mg/kg/84W-I

Review: IARC Cancer Review: Human Inadequate Evidence

IARC Cancer Review: Animal Limited Evidence

IARC: Not classifiable as a human carcinogen (Group 3) [610]

Status: NCI Carcinogenesis Bioassay (Feed); Negative: Male and Female Rat, Male and Female Mouse [015,620]

\*MUTATION DATA: Not available

\*TERATOGENICITY: Not available

\*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z

Transitional Limit: PEL-TWA 15 mg/m<sup>3</sup> (total dust) [015,327,545,610]

Final Limit: PEL-TWA 10 mg/m<sup>3</sup> (total dust) [015,545,610]

ACGIH: TLV-TWA 10 mg/m<sup>3</sup> (for total dust containing no asbestos and less than 1% crystalline silica) [610]

NIOSH: None

NFPA Hazard Rating: Health (H): None

Flammability (F): None

Reactivity (R): None

\*OTHER TOXICITY DATA:

Skin and Eye Irritation Data:

skn-hmn 300 ug/3D-I MLD

Status: EPA TSCA Chemical Inventory, 1986

EPA Genetox Program 1988, Negative: Carcinogenicity-mouse/rat; Cell transform.-SA7/SHE

EPA TSCA Section 8(e) Status Report 8EHQ-1083-0497

EPA TSCA Test Submission (TSCATS) Data Base, September 1989

## **SECTION 12: Ecological information**

### **Toxicity**

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

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## **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.

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## **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



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Packing Group: III  
EMS Number:  
Proper Shipping Name: Printing Ink

### IATA

UN Number: 1210  
Class: 3  
Packing Group: III  
Proper Shipping Name: Printing Ink

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## SECTION 15: Regulatory information

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

#### Massachusetts Right To Know Components

2-methoxy-1-methylethyl acetate

#### New Jersey Right To Know Components

Dimethyl glutatate, Dimethyl succinate, Dimethyl adipate. 2-methoxy-1-methylethyl acetate. Titanium Dioxide

#### Pennsylvania Right To Know Components

Dimethyl glutatate, Dimethyl succinate, Dimethyl adipate. 2-methoxy-1-methylethyl acetate. Titanium Dioxide

#### SARA 311/312 Hazards

Dimethyl glutatate, Dimethyl succinate, Dimethyl adipate. Titanium Dioxide

#### HMIS Rating

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HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

#### NFPA Rating



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## 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.

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### 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.