



## CUDNER & O'CONNOR CO.

### Safety Data Sheet LT-400 CLEAR

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#### SECTION 1: Identification

##### 1.1 Product identifier

|                |              |
|----------------|--------------|
| Product name   | LT-400 CLEAR |
| Product number | LT-400       |
| Brand          | CANDOC       |

##### 1.2 Other means of identification

Clear 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<br>Chicago, IL 60624<br>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.

## 2.3 Other hazards which do not result in classification

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

##### 1. 2-methoxy-1-methylethyl acetate

Concentration 30 - 35 %

Other names / synonyms 2-Propanol, 1-methoxy-, 2-acetate  
EC no. 203-603-9  
CAS no. 108-65-6  
Index no. 607-195-00-7

- Flammable liquids (chapter 2.6), Cat. 3
- Eye damage/irritation (chapter 3.3), Cat. 2

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|      |                               |
|------|-------------------------------|
| H226 | Flammable liquid and vapor    |
| H319 | Causes serious eye irritation |

### 2. 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 |

- 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            |

### 3. Nitrocellulose

|               |           |
|---------------|-----------|
| Concentration | 15 - 20 % |
|---------------|-----------|

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| 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 |
|------|-----------------|

### 4. 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 |

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

Concentration 5 - 10 %  
CAS no. 8050-15-5

### 6. Castor oil, oxidized

Concentration 5 - 10 %  
EC no. 269-128-4  
CAS no. 68187-84-8

### 7. 1,4-Benzenedicarboxylic acid, 1,4-bis(2-ethylhexyl) ester

Concentration < 0 - 5 %  
CAS no. 6422-86-2

### 8. 2-(2-BUTOXYETHOXY)ETHANOL

Concentration < 0 - 1 %

Other names / synonyms BUTYL CARBITOL; diethylene glycol monobutyl ether; DIETHYLENE GLYCOL n-BUTYL ETHER; GLYCOL ETHER DB; GLYCOL MONOBUTYL ETHER  
EC no. 203-961-6  
CAS no. 112-34-5  
Index no. 603-096-00-8

- Eye damage/irritation (chapter 3.3), Cat. 2

H319 Causes serious eye irritation

### 9. POLYDIMETHYLSILOXANES

Concentration < 0 - 5 %

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

### 10. Soybean oil, polymd, oxidized

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

### 11. Soybean oil, epoxidized

Concentration < 0 - 5 %  
CAS no. 8013-07-8

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## 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.

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|                                                        |                                                                                                                             |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 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

#### 7.1 Precautions for safe handling

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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

#### 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)

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)

### 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).

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### 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).

### Environmental exposure controls

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                         | 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                        | 10.00 lbs                    |
| 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                    |                              |

### Other safety information

VOC WEIGHT 64.35%  
VOC VOLUME 70.26%  
VOC 5.35 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

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### 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

### 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**

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**

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UN Number: 1210  
Class: 3  
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

#### New Jersey Right To Know Components

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

#### Massachusetts Right To Know Components

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

#### 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    |   |

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## SECTION 16: Other information

### 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.