



CUDNER & O'CONNOR CO.

Safety Data Sheet KP-2002 CLEAR

SECTION 1: Identification

1.1 Product identifier

Product name	KP-2002 CLEAR
Product number	KP-2002
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 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

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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 ₂ , 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 45 - 50 %

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

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- 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 15 - 20 %

Other names / synonyms CELLULOSE NITRATE, containing more than 12,6% NITROGEN; Cellulose, nitrate; Nitrocellulose membranes

CAS no. 9004-70-0

3. 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
H333	May be harmful if inhaled

4. Modified Rosin Ester

Concentration 5 - 10 %

5. 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

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H336 May cause drowsiness or dizziness

6. TOLUENE

Concentration 2.1 %

Other names / synonyms TOLU-SOL; TOLUOL

EC no. 203-625-9

CAS no. 108-88-3

Index no. 601-021-00-3

- Flammable liquids (chapter 2.6), Cat. 2
- Toxic to reproduction (chapter 3.7), Cat. 2
- Aspiration hazard (chapter 3.10), Cat. 1
- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

H225

Highly flammable liquid and vapor

H304

May be fatal if swallowed and enters airways

H315

Causes skin irritation

H336

May cause drowsiness or dizziness

H361d

Suspected of damaging the unborn child

H373

May cause damage to organs through prolonged or repeated exposure

7. 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

8. 2-(2-BUTOXYETHOXY)ETHANOL

Concentration < 0 - 5 %

Other names / synonyms BUTYL CARBITOL; diethylene glycol monobutyl ether; DIETHYLENE
GLYCOL n-BUTYL ETHER; GLYCOL ETHER DB; GLYCOL MONOBUTYL
ETHER

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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
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9. POLYDIMETHYLSILOXANES

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

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.
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In case of skin contact	Wash off with soap and plenty of water.
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In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
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Personal protective equipment for first-aid responders	Wear self-contained breathing apparatus for firefighting if necessary.
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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

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

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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): 50 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

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

PEL (Inhalation): 240 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

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

PEL (Inhalation): 20 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

4. 2-Butoxyethanol (CAS: 111-76-2)

REL (Inhalation): 5 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

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

TWA (Inhalation): 100ppm (ACGIH)

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

TWA (Inhalation): 350mg/m³ TWA20000 mg/3 IDLH (OSHA)

7. Toluene (CAS: 108-88-3)

PEL (Inhalation): See Annotated Z-2 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

8. Toluene (CAS: 108-88-3)

PEL (Inhalation): See Annotated Z-2 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

9. Toluene (CAS: 108-88-3)

PEL (Inhalation): See Annotated Z-2 (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

10. Toluene (CAS: 108-88-3)

REL (Inhalation): See Annotated Z-2 (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

11. 1,2,4-Trimethylbenzene (CAS: 95-63-6 EC: 202-436-9)

TWA (Inhalation): 25 ppm 125mg/m³ (NIOSH)

12. 2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5 EC: 203-961-6)

TWA (Inhalation): 10ppm (ACGIH)

13. Isopropyl alcohol (CAS: 67-63-0)

PEL (Inhalation): 400 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

14. Isopropyl alcohol (CAS: 67-63-0)

PEL (Inhalation): 980 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

15. Isopropyl alcohol (CAS: 67-63-0)

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

OSHA Annotated Table Z-1, www.osha.gov

16. Isopropyl alcohol (CAS: 67-63-0)

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

OSHA Annotated Table Z-1, www.osha.gov

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.

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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

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	8.22 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 67.86%
VOC VOLUME 75.83%
VOC 5.51 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.

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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

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

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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:

Proper Shipping Name: Printing Ink

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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

SARA 311/312 Hazards

2-(2-Butoxyethoxy) ethanol, Isopropyl Alcohol, 1,2,4-Trimethylbenzene, Toluene, 2-Butoxy Ethanol

SARA 313 Components

2-(2-Butoxyethoxy) ethanol, Isopropyl Alcohol, 1,2,4-Trimethylbenzene, Toluene, 2-Butoxy Ethanol

New Jersey Right To Know Components

2-Butoxy Ethanol, Stoddard Solvent, Toluene, 1,2,4-Trimethylbenzene, 2-(2-Butoxyethoxy) ethanol, Isopropyl Alcohol

Massachusetts Right To Know Components

2-Butoxy Ethanol, Stoddard Solvent, Toluene, 1,2,4-Trimethylbenzene, 2-(2-Butoxyethoxy) ethanol, Isopropyl Alcohol

Pennsylvania Right To Know Components

2-Butoxy Ethanol, Stoddard Solvent, Toluene, 1,2,4-Trimethylbenzene, 2-(2-Butoxyethoxy) ethanol, Isopropyl Alcohol

California Prop. 65 Components

Common name: Toluene

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

16.2 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

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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.