CUDNER & O'CONNOR CO.

Safety Data Sheet
EP-353 BLACK

SECTION 1: Identification

1.1 Product identifier

Product name	EP-353 BLACK
Product number	EP-353
Brand	CANDOC

1.2 Other means of identification
Black 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
- Carcinogenicity (chapter 3.6), Cat. 2

2.2 GHS label elements, including precautionary statements

Pictogram

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
H351	Suspected of causing cancer

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,CO2, 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. Dipropylene glycol monomethyl ether

Concentration	30 - 35 %
Other names / synonyms	Propanol, 1(or 2)-(2-methoxymethylethoxy)-
CAS no.	34590-94-8

- Flammable liquids (chapter 2.6), Cat. 4
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

H227	Combustible liquid
H335	May cause respiratory irritation

2. Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]

Concentration	20 - 25 %
CAS no.	25036-25-3

- Acute toxicity, inhalation (chapter 3.1), Cat. 5

3. ETHYLENE GLYCOL MONOBUTYL ETHER

Concentration	5 - 10 %
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

4. Urea Polymer

Concentration	5 - 10 %

5. n-Butyl alcohol

Concentration	< 0 - 5 %
Other names / synonyms	1-butanol; n-butanol;
EC no.	200-751-6
CAS no.	71-36-3
Index no.	603-004-00-6

- Flammable liquids (chapter 2.6), Cat. 3
- Acute toxicity (chapter 3.1), Cat. 4
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 1

H226	Flammable liquid and vapor
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage

H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

6. ETHANOL

Concentration	< 0 - 5 %
Other names / synonyms	ABSOLUTE ETHANOL; ALCOHOL; ALCOHOL DEHYDRATED; ALCOHOL, ANHYDROUS; ALGRAIN; ANHYDROL; COLOGNE SPIRIT; COLOGNE SPIRITS (ALCOHOL); ETHANOL 200 PROOF; ETHANOL SOLUTION; ETHYL ALCOHOL; ETHYL ALCOHOL ANHYDROUS; ETHYL HYDRATE; ETHYL HYDROXIDE; etoh; FERMENTATION ALCOHOL; GRAIN ALCOHOL; JAYSOL; JAYSOL S; METHYLCARBINOL; MOLASSES ALCOHOL; NCI-C03134; POTATO ALCOHOL; SD ALCOHOL 23-HYDROGEN; SPIRIT; SPIRITS OF WINE; TECSOL; UN 1170
EC no.	200-578-6
CAS no.	64-17-5
Index no.	603-002-00-5

- Flammable liquids (chapter 2.6), Cat. 2

H225	Highly flammable liquid and vapor

7. Methanol

Concentration	< 0 - 1 %
Other names / synonyms	METHYL ALCOHOL
EC no.	200-659-6
CAS no.	67-56-1
Index no.	603-001-00-X

- Flammable liquids (chapter 2.6), Cat. 2
- Acute toxicity (chapter 3.1), Cat. 3
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 1

H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
H370	Causes damage to organs

8. Formaldehyde

Concentration	0.12 %
Other names / synonyms	formaldehyde ...%; Formaldehyde (gas)
EC no.	200-001-8
CAS no.	50-00-0
Index no.	605-001-00-5

- Carcinogenicity (chapter 3.6), Cat. 2
- Acute toxicity (chapter 3.1), Cat. 3
- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- Sensitization, skin (chapter 3.4), Cat. 1

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H351	Suspected of causing cancer

9. ETHYL ACETATE

Concentration	< 0 - 5 %
Other names / synonyms	ETHYL ETHANOATE; ETHYLACETATE
EC no.	205-500-4
CAS no.	141-78-6
Index no.	607-022-00-5

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

10. METHYL ISOBUTYL KETONE

Concentration	< 0 - 1 %
Other names / synonyms	2-METHYL-4-PENTANONE; ISOBUTYL METHYL KETONE; KETONE, ISOBUTYL METHYL; METHYLISOBUTYLKETONE; MIBK; MIK
EC no.	203-550-1
CAS no.	108-10-1
Index no.	606-004-00-4

- Flammable liquids (chapter 2.6), Cat. 2
- 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

H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

11. 2-methoxy-1-methylethyl acetate

Concentration	< 0 - 5 %
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

H226	Flammable liquid and vapor
H319	Causes serious eye irritation

12. Solvent naphtha (petroleum), heavy arom

Concentration	< 0 - 1 %
CAS no.	64742-94-5

- Flammable liquids (chapter 2.6), Cat. 4
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Acute toxicity, dermal (chapter 3.1), Cat. 4
- Acute toxicity, inhalation (chapter 3.1), Cat. 4

H227	Combustible liquid

13. ISOPROPANOL

Concentration	< 0 - 1 %
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

14. NAPHTHALENE

Concentration	0 - 0.1 %
Other names / synonyms	NAPHTHENE
EC no.	202-049-5
CAS no.	91-20-3
Index no.	601-052-00-2

- Carcinogenicity (chapter 3.6), Cat. 2
- Acute toxicity (chapter 3.1), Cat. 4
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

H302	Harmful if swallowed
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

15. Stoddard solvent

Concentration	< 0 - 5 %
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

16. Carbon black (airborne, unbound particles of respirable size)

Concentration	4.72 %
Other names / synonyms	acetylene black; Carbon Black; channel black; furnace black; lamp black; lampblack; Oil Black (Lampblack); thermal black
CAS no.	1333-86-4
H351	Suspected of causing cancer

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

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. Dipropylene glycol methyl ether (CAS: 34590-94-8)
PEL (Inhalation): 100 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

2. Dipropylene glycol methyl ether (CAS: 34590-94-8)
PEL (Inhalation): 600 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

3. Dipropylene glycol methyl ether (CAS: 34590-94-8)
PEL (Inhalation): 100 ppm, (ST) 150 ppm (Cal/OSHA)

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

4. Dipropylene glycol methyl ether (CAS: 34590-94-8)
REL (Inhalation): 100 ppm, (ST) 150 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

5. 2-Butoxyethanol (CAS: 111-76-2)
PEL (Inhalation): 50 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

6. 2-Butoxyethanol (CAS: 111-76-2)
PEL (Inhalation): 240 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

7. 2-Butoxyethanol (CAS: 111-76-2)
PEL (Inhalation): 20 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

8. 2-Butoxyethanol (CAS: 111-76-2)
REL (Inhalation): 5 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

9. Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] (CAS: 25036-25-3)
TWA (Inhalation): 10mg/m3 (ACGIH)

10. Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] (CAS: 25036-25-3)
TWA (Inhalation): 15mg/m3 (OSHA)

11. n-Butyl alcohol (CAS: 71-36-3)
PEL (Inhalation): 100 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

12. n-Butyl alcohol (CAS: 71-36-3)
PEL (Inhalation): 300 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

13. n-Butyl alcohol (CAS: 71-36-3)
PEL (Inhalation): (C) 50 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

14. n-Butyl alcohol (CAS: 71-36-3)
REL (Inhalation): (C) 50 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

15. Ethyl alcohol (Ethanol) (CAS: 64-17-5)
PEL (Inhalation): 1000 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

16. Ethyl alcohol (Ethanol) (CAS: 64-17-5)
PEL (Inhalation): 1900 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

17. Ethyl alcohol (Ethanol) (CAS: 64-17-5)
PEL (Inhalation): 1000 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

18. Ethyl alcohol (Ethanol) (CAS: 64-17-5)
REL (Inhalation): 1000 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

19. METHYL ALCOHOL (CAS: 67-56-1 EC: 200-659-6)
PEL-TWA: 200 ppm (ACGIH)

20. METHYL ALCOHOL (CAS: 67-56-1 EC: 200-659-6)
Headache, Nausea, Dizziness, Eye damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Danger of cutaneous absorption

21. METHYL ALCOHOL (CAS: 67-56-1 EC: 200-659-6)
STEL: 250 ppm (ACGIH)

22. METHYL ALCOHOL (CAS: 67-56-1 EC: 200-659-6)
PEL-TWA: 200 ppm, 325 mg/m3 (NIOSH)

23. METHYL ALCOHOL (CAS: 67-56-1 EC: 200-659-6)
Potential for dermal absorption

24. METHYL ALCOHOL (CAS: 67-56-1 EC: 200-659-6)
PEL-TWA: 200 ppm, 260 mg/m3 (OSHA)
USA. Occupational Exposure Limits
(OSHA) - Table Z-1 Limits for Air
Contaminants

25. Methyl alcohol (CAS: 67-56-1)
PEL (Inhalation): 200 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

26. Methyl alcohol (CAS: 67-56-1)
PEL (Inhalation): 260 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

27. Methyl alcohol (CAS: 67-56-1)
PEL (Inhalation): 200 ppm, (ST) 250 ppm, (C) 1000 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

28. Methyl alcohol (CAS: 67-56-1)
REL (Inhalation): 200 ppm, (ST) 250 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

29. Formaldehyde (CAS: 50-00-0 EC: 200-001-8)
PEL-C (Inhalation): 0.3 ppm (ACGIH)
USA. ACGIH Threshold Limit Values (TLV)

30. Formaldehyde (CAS: 50-00-0 EC: 200-001-8)
Remarks: Upper Respiratory Tract irritation, Eye irritation, Suspected human carcinogen, Sensitizer

31. Formaldehyde (CAS: 50-00-0 EC: 200-001-8)
PEL-TWA (Inhalation): 0.016 ppm (NIOSH)
USA. NIOSH Recommended Exposure Limits

32. Formaldehyde (CAS: 500-00-0 EC: 200-001-8)
Potential Occupational Carcinogen
See Appendix A

33. Formaldehyde (CAS: 50-00-0 EC: 200-001-8)
PEL-C (Inhalation): 0.1 ppm (NIOSH)
USA. NIOSH Recommended Exposure Limits

34. Formaldehyde (CAS: 50-00-0 EC: 200-001-8)
1910.1048: This standard applies to all occupational exposures to formaldehyde, i.e. from formaldehyde gas, its solutions, and materials that release formaldehyde OSHA specifically regulated carcinogen

35. Formaldehyde (CAS: 50-00-0 EC: 200-001-8)
0.75 ppm
OSHA Specifically Regulated Chemicals/Carcinogens

36. Ethyl acetate (CAS: 141-78-6)

PEL (Inhalation): 400 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

37. Ethyl acetate (CAS: 141-78-6)
PEL (Inhalation): 1400 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

38. Ethyl acetate (CAS: 141-78-6)
PEL (Inhalation): 400 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

39. Ethyl acetate (CAS: 141-78-6)
REL (Inhalation): 400 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

40. Hexone (Methyl isobutyl ketone) (CAS: 108-10-1)
PEL (Inhalation): 100 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

41. Hexone (Methyl isobutyl ketone) (CAS: 108-10-1)
PEL (Inhalation): 410 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

42. Hexone (Methyl isobutyl ketone) (CAS: 108-10-1)
PEL (Inhalation): 50 ppm, (ST) 75 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

43. Hexone (Methyl isobutyl ketone) (CAS: 108-10-1)
REL (Inhalation): 50 ppm, (ST) 75 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

44. 2-methoxy-1-methylethyl acetate (CAS: 108-65-6 EC: 203-603-9)
TWA (Inhalation): 100 ppm

45. Solvent naphtha (petroleum), heavy arom (CAS: 64742-94-5)
TWA (Inhalation): 100 MG/M3

46. Isopropyl alcohol (CAS: 67-63-0)
PEL (Inhalation): 400 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

47. Isopropyl alcohol (CAS: 67-63-0)
PEL (Inhalation): 980 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

48. Isopropyl alcohol (CAS: 67-63-0)
PEL (Inhalation): 400 ppm, (ST) 500 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

49. Isopropyl alcohol (CAS: 67-63-0)
REL (Inhalation): 400 ppm, (ST) 500 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

50. Naphthalene (CAS: 91-20-3)
PEL (Inhalation): 10 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

51. Naphthalene (CAS: 91-20-3)
PEL (Inhalation): 50 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

52. Naphthalene (CAS: 91-20-3)
PEL (Inhalation): 10 ppm, (ST) 15 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

53. Naphthalene (CAS: 91-20-3)
REL (Inhalation): 10 ppm, (ST) 15 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

54. Stoddard solvent (CAS: 8052-41-3 EC: 232-489-3)
TWA (Inhalation): 100ppm (ACGIH)

55. Stoddard solvent (CAS: 8052-41-3 EC: 232-489-3)
TWA (Inhalation): 350mg/m3 TWA20000 mg/3 IDLH (OSHA)

56. Carbon black (CAS: 1333-86-4)
PEL (Inhalation): 3.5 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

57. Carbon black (CAS: 1333-86-4)
PEL (Inhalation): 3.5 mg/m3 (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

58. Carbon black (CAS: 1333-86-4)
REL (Inhalation): 3.5 mg/m3Ę without PAHs); when PAHs are present, NIOSH considers carbon black to be a potential occupational carcinogen., See Appendix A,ƀee Appendix C (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.

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 incompletey 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	75-390
Flash point	134 F
Evaporation rate	Slower than Ether
Flammability (solid, gas)	
Upper/lower flammability limits	15.3
Upper/lower explosive limits	1.1
Vapor pressure	No Data
Vapor density	Heavier than Air
Relative density	8.66lbs
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 55.20%
VOC VOLUME 62.58%
VOC 4.71 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.

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

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 enviromentally 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 enviromentally 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

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 302 Components
Formaldehyde,

SARA 311/312 Hazards

Dipropylene glycol methyl ether,2-Butoxy Ethanol,n-Butyl alcohol,Ethyl Alcohol,Methanol, Ethyl acetate, Methyl isobutyl ketone,Naphthalene, 1,2,4- Trimethylbenzene, Isopropyl Alcohol, Carbon Black ,Formaldehyde,

SARA 313 Components
2-Butoxy Ethanol,n-Butyl alcohol,Ethyl Alcohol,Methanol,Formaldehyde, Methyl isobutyl ketone, Naphthalene, 1,2,4- Trimethylbenzene, Isopropyl Alcohol, Carbon Black

New Jersey Right To Know Components
Dipropylene glycol methyl ether, 2-Butoxy Ethanol,n-Butyl alcohol,Ethyl Alcohol, Methanol,Formaldehyde, Ethyl acetate, Methyl isobutyl ketone,2-methoxy-1-methylethyl acetate,Solvent naphtha (petroleum), heavy arom,Naphthalene, 1,2,4- Trimethylbenzene, Isopropyl Alcohol , p-TOLUENE SULFONIC ACID, Stoddard Solvent, Carbon Black

Massachusetts Right To Know Components
Dipropylene glycol methyl ether, 2-Butoxy Ethanol,n-Butyl alcohol, Ethyl Alcohol,Methanol, Ethyl acetate, Methyl isobutyl ketone,2-methoxy-1-methylethyl acetate,Solvent naphtha (petroleum), heavy arom,Naphthalene, 1,2,4-Trimethylbenzene, Isopropyl Alcohol , Stoddard Solvent, Carbon Black,Formaldehyde,

Pennsylvania Right To Know Components
Dipropylene glycol methyl ether,2-Butoxy Ethanol, n-Butyl alcohol,Ethyl Alcohol,Methanol, Ethyl acetate, Methyl isobutyl ketone,2-methoxy-1-methylethyl acetate,Solvent naphtha (petroleum), heavy arom,Naphthalene, 1,2,4-Trimethylbenzene, Isopropyl Alcohol , Titanium Dioxide, Carbon Black,Formaldehyde,

California Prop. 65 Components
Methyl isobutyl ketone, Naphthalene, Carbon Black,Formaldehyde,

HMIS Rating

Health	2
Flammability	2
Physical hazard	0
Personal protection	B

NFPA Rating

Health hazard	2
Fire hazard	2
Reactivity hazard	0
Special hazard	

SECTION 16: Other information

16.1 Further information/disclaimer

Carbon Black This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH,
NTP, or EPA classification.
Limited evidence of carcinogenicity in animal studies
IARC: 2B - Group 2B: Possibly carcinogenic to humans (Carbon black)
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA Carbon Black This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH,
NTP, or EPA classification.
Limited evidence of carcinogenicity in animal studies
IARC: 2B - Group 2B: Possibly carcinogenic to humans (Carbon black)
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

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 enviromental regulatory compliane obligations under any fereral, state or local laws.