

80185D – BLUE

MATERIAL SAFETY DATA SHEET

MSDS Name: DPI-55/24 BLUE INK
MSDS Number: 80185D
Version Number
MSDS Date: 12062006
Page Number: 1 of 9

SECTION I – PRODUCT IDENTIFICATION

Product Name: DPI-55/24 BLUE INK
CAS Number: MIXTURE
Hazard Rating: Health: 2 Fire: 3 Reactivity: 1 PPI: B

Company Identification: DELL MARKING SYSTEMS, INC
721 WANDA AVENUE
FERNDALE MI 48220

Contact: CHEMTREC
Telephone/Fax: (248) 547-7750 (248) 544-9115
Emergency Phone (24 Hour): CHEMTREC
1-800-424-9300
Chemtrec (24 Hour): 1-800-424-9300

Product Class: DPI-55/24
Trade Name: DPI-55/24 BLUE INK
Product Code: 80185D
DOT Hazard Class: FLAMMABLE LIQUID
UN Number: UN1210
Shipping Name: INK
Technical Name:
Shipping Description: 3, UN1210, PG II

SECTION II – HAZARD INGREDIENTS

Ingredient Name	CAS NUMBER	PERCENT	TSCA	VP(mm Hg)
*2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	20-50	Y	.02
ETHYL ALCOHOL	64-17-5	20-50	Y	43
*2-PROPOXYETHANOL	2807-30-9	5-20	Y	1.3
*TOLUENE	108-88-3	5-20	Y	22
PROPYLENE GLYCOL ETHER	107-98-2	5-20	Y	11
LOW AROMATIC NAPHTHA	8032-32-4	1-5	Y	5.2

80185D – BLUE

MATERIAL SAFETY DATA SHEET

MSDS Name: DPI-55/24 BLUE INK
MSDS Number: 80185D
Version Number
MSDS Date: 12062006
Page Number: 2 of 9

ETHEL ACETATE	141-78-6	1-5	Y	86
ISOPROPANOL	67-63-0	1-5	Y	96
N-BUTYL ACETATE	123-86-4	1-5	Y	10
*XYLENE	1330-20-7	1-5	Y	6.6
*METHYL ISOBUTYL KETONE	108-10-1	1-5	Y	15
*METHANOL	67-56-1	1-5	Y	96
*ETHYL BENZENE	100-41-4	<0.5	Y	10

*** ALL Ingredients in this product are listed in the T.S.C.A. Inventory

* Indicates a Chemical subject to SARA Title III, section 313 release reporting (EPA Regulation 40 CFR 372).

The International Agency for Research on Cancer (IARC) has classified ethyl benzene as a Group 2B carcinogen.

N.E. = Not Established

SECTION III – PHYSICAL DATA

Form:	THIN BLUE LIQUID WITH SOLVENT ODOR
pH Value:	NA
Boiling Range:	148.0°F – 442.4°F (64.44°C – 228.0°C)
Melting Point:	NA
Evaporation Rate:	Faster than n-Butyl Acetate
Vapor Density:	Heavier than air
% Volatile Weight	86%
% Volatile (Volume):	93%
Specific Gravity:	0.92624

80185D – BLUE

MATERIAL SAFETY DATA SHEET

MSDS Name: DPI-55/24 BLUE INK
MSDS Number: 80185D
Version Number
MSDS Date: 12062006
Page Number: 3 of 9

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flammability Class	1B
Flash Range:	0°F – 212.0°F (-17.78°C – 100.0°C)
LEL / UEL:	0.85% 36.5%

EXTINGUISHING MEDIA:

Use "alcohol" foam, water spray, dry chemical, or carbon dioxide to put out fires. Use media suitable for surrounding fire. Plan fire protection and response strategy through consultation With local fire protection authorities or appropriate specialists.

SPECIAL FIREFIGHTING PROCEDURES:

Clear area of unprotected personnel. Firefighters should wear NIOSH-approved, self-contained breathing apparatus. Use water spray to cool fire-exposed surfaces. Also, use water to flush spilled material away from source. Vapors are harmful; stay upwind of a fire to minimize breathing of vapors, gases, fumes or decomposition products being generated.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Containers exposed to intense heat from fire must be cooled to prevent vapor pressure build-up which may result in container rupture. Cool containers exposed directly to flames with large quantities of water as needed to prevent weakening of container itself. Never use a welding or cutting torch on or near container. **EMPTY CONTAINER WARNING:** "EMPTY" containers contain residues (liquid, solid, and/or vapor) that can be dangerous. DO NOT pressurize, cut, weld, braze, grind, drill, solder or expose containers to heat, sparks, open flame. They may explode and cause injury and/or death. DO NOT attempt to clean drums. Residues are difficult to remove. "EMPTY" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. Dispose of all containers in an environmentally safe way and in accordance with governmental regulations. For work on tanks, refer to OSHA regulations ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding or other operations.

SECTION V – HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL:

Avoid contact with skin and clothing. Avoid breathing vapors. Use with adequate ventilation to maintain levels below PEL.

80185D – BLUE

MATERIAL SAFETY DATA SHEET

MSDS Name: DPI-55/24 BLUE INK
MSDS Number: 80185D
Version Number
MSDS Date: 12062006
Page Number: 4 of 9

EFFECTS OF OVEREXPOSURE:

INHALATION: Vapors can cause irritation to nose, throat and respiratory tract. High vapor concentration may result in central nervous system (CNS) depression evidenced by giddiness, headache, dizziness and nausea. In extreme cases, unconsciousness and death can occur.

SKIN: Prolonged or repeated contact with liquid can cause drying and/or defatting of the skin which may promote dermatitis and irritation. **ABSORPTION:** Some components may absorb through the skin and cause CNS effects similar to inhalation.

EYES: Direct eye contact with liquid will cause burning, redness and tearing. Contact with vapors are irritating to eyes.

INGESTION: Swallowing of product will cause gastrointestinal distress, nausea, vomiting and/or diarrhea. Material is moderately toxic by ingestion.

AGGRAVATED MEDICAL CONDITION: Pre-existing skin and respiratory disorders may be aggravated by this product.

CARCINOGENICITY: The pigment in this product contains lead chromate. Lead chromate is currently listed as a suspect human carcinogen.

FIRST AID:

INHALATION: Remove victim to fresh air. If breathing difficulties develop, administer oxygen and get medical attention. If victim is not breathing, administer artificial respiration and get medical attention.

SKIN: Flush affected areas with large amounts of water, remove contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation or redness persists or develops, get medical attention.

EYES: Immediately flush eyes with a directed stream of water for at least 15 minutes while holding eyelids open. If irritation or redness develops or persists, get medical attention.

INGESTION: DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. (Aspiration pneumonitis can be fatal.) Give victim lukewarm water if conscious and alert. **GET IMMEDIATE MEDICAL ATTENTION.**

80185D – BLUE

MATERIAL SAFETY DATA SHEET

MSDS Name: DPI-55/24 BLUE INK
MSDS Number: 80185D
Version Number
MSDS Date: 12062006
Page Number: 5 of 9

Ingestion of as little as 10 ml of Isopropanol may cause serious injury, while ingestion of 100 ml can be fatal. The single lethal dose for an adult is approximately 250 ml. FOR INGESTION OF ISOPROPONAL: Give victim milk or water. Induce vomiting by sticking finger to back of throat. Contact a physician or POISON CONTROL CENTER.

SECTION VI – REACTIVITY DATA

Stability: This product is stable.

Hazardous Polymerization: Hazardous polymerization will not occur.

Incompatibility: Strong oxidizing agents.

Anhydrous Ethanol reacts with aluminum at high temperatures.

CONDITIONS TO AVOID: Heat, sparks, open flame, and static discharge.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic combustion products.

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all sources of ignition. Ground handling equipment to prevent static discharge and sparking. Insure adequate ventilation. Recover small amounts of material by absorbing with an inert absorbent and scooping into properly labeled disposal drum. For large spills, evacuate area. Allow only properly trained and equipped personnel in area. Shut off source of leak only when safe to do so. Dike and contain material. If vapor cloud forms, water fog may be used to suppress it. Contain run-off water. Remove with vacuum truck or pump into grounded salvage vessel. Absorb residue with inert absorbent and place into properly labeled disposal drum. Do not allow run-off water or product to enter sewers or water ways.

WASTE DISPOSAL METHOD:

Licensed waste treatment facility or reclaimer.

**The reportable quantity for Toluene is 1000 lbs.
The hazardous waste number for Toluene is U220.
The reportable quantity for Methyl Alcohol is 5000 lbs.
The hazardous waste number for isopropanol is D001.
There are no reportable quantities listed for isopropanol.**

80185D – BLUE

MATERIAL SAFETY DATA SHEET

MSDS Name: DPI-55/24 BLUE INK
MSDS Number: 80185D
Version Number
MSDS Date: 12062006
Page Number: 6 of 9

The reportable quantity for N-Butyl Acetate is 5000 lbs.
The hazardous waste number for N-Butyl Acetate is D001.
There are no hazardous waste numbers listed for 2-(2-butoxyethoxy)ethanol.
There are no reportable quantities listed for 2-(2-butoxyethoxy)ethanol.
There are no hazardous waste numbers listed for 2-propoxyethanol.
There are no reportable quantities listed for 2-propoxyethanol.
The reportable quantity for Methyl Isobutyl Ketone is 5000 lbs.
The hazardous waste number for Methyl Isobutyl Ketone is U161
The reportable quantity for Xylene is 1000 lbs.
The hazardous waste number for Xylene is U239.
The hazardous waste number for Anhydrous Ethanol is D001.
The reportable quantity for Ethyl Acetate is 5000 lbs.
The reportable quantity for Ethyl Benzene is 1000 lbs.

SECTION VIII – SPECIAL PROTECTION INFORMATION

Occupational Exposure Limits

	ACGIH TLV	ACGIH STEL	OSHA STEL	OSHA PEL
*2-(2-BUTOXYETHOXY)ETHANOL	N/est	N/est	N/est	N/est
ETHYL ALCOHOL	1000 PPM	N/est	N/est	1000 PPM
*2-PROPOXYETHANOL	N/est	N/est	N/est	N/est
*TOLUENE	50 PPM	150 PPM	150 PPM	100 PPM
PROPYLENE GLYCOL ETHER	100 PPM	150 PPM	N/est	N/est
LOW AROMATIC NAPHTHA	300 PPM	N/est	N/est	300 PPM
ETHYL ACETATE	400 PPM	N/est	N/est	400 PPM
ISOPROPANOL	400 PPM	500 PPM	500 PPM	400 PPM
N-BUTYL ACETATE	150 PPM	200 PPM	200 PPM	150 PPM
*XYLENE	100 PPM	150 PPM	150 PPM	100 PPM

80185D – BLUE

MATERIAL SAFETY DATA SHEET

MSDS Name: DPI-55/24 BLUE INK
MSDS Number: 80185D
Version Number
MSDS Date: 12062006
Page Number: 7 of 9

*METHYL ALCOHOL	200 PPM	250 PPM	250 PPM	200 PPM
*METHYL ETHYL KETONE	200 PPM	300 PPM	300 PPM	200 PPM
*METHYL ISOBUTYL KETONE	50 PPM	75 PPM	75 PPM	50 PPM
*ETHYL BENZENE	100 PPM	100 PPM	120 PPM	120 PPM

RESPIRATORY PROTECTION:

NIOSH approved for organic vapors. In accordance with 29 CFR 19 10.134. Use either an atmosphere-supplying respirator or an air purifying respirator for organic vapors.

VENTILLATION:

Use material only with adequate ventilation to prevent exceeding the recommended exposure limit or a buildup of explosive concentrations in the air. Use explosion proof equipment. No smoking or open lights. Air dry contaminated clothing in a well ventilated area before laundering.

PROTECTIVE GLOVES:

Recommended; chemical resistant.

The recommended gloves for methanol is neoprene or butyl rubber.

The recommended gloves for isoproponal are nitrile, neoprene, or natural rubber.

The recommended gloves for Anhydrous Ethanol is nitrile.

EYE PROTECTION:

Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT:

As required to minimize skin contact depending on use of material. An eyewash and safety shower should be located close to work area. Use explosion proof ventilation as required to control vapor concentrations.

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

WORK/HYGIENIC PRACTICES: Ground all equipment to prevent static discharge. Keep containers away from heat, sparks, and open flame. Wash thoroughly with soap and water after handling material.

80185D – BLUE

MATERIAL SAFETY DATA SHEET

MSDS Name: DPI-55/24 BLUE INK
MSDS Number: 80185D
Version Number
MSDS Date: 12062006
Page Number: 8 of 9

STORAGE: Keep liquid from heat, sparks, open flame, and all sources of ignition. Surfaces that are sufficiently hot may ignite product even in the absence of sparks or flame. Vapors can accumulate and travel to ignition sources distant from handling site: Flash fire can result. Store material in a cool area and away from direct sunlight. Keep containers closed when not in use. Use material with adequate ventilation.

SEE EMPTY CONTAINER WARNING UNDER UNUSUAL FIRE AND EXPLOSION HAZARDS.

OTHER PRECAUTIONS:

N/AV= Not Applicable NE= Not established ND= No data found
N/AP= Not Applicable UNK= Unknown

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We neither suggest nor guarantee that any hazards mentioned are the only ones which exist. Employers should use this information only as a supplement to other information to assure proper use of this material and the health and safety of employees.

SECTION X – ADDITIONAL REGULATORY INFORMATION

SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act and of 1986 and 40 CFR 372:

Ingredient Name	CAS Number	Percent
*2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	20-30
*2-PROPOXYETHANOL	2807-30-9	5-20
*TOLUENE	108-88-3	5-20
*METHYL ISOBUTYL KETONE	108-10-1	1-5
*METHYL ALCOHOL	67-56-1	1-5
*XYLENE	1330-20-7	1-5
*ETHYL BENZENE	100-41-4	<0.5

80185D – BLUE

MATERIAL SAFETY DATA SHEET

MSDS Name: DPI-55/24 BLUE INK

MSDS Number: 80185D

Version Number

MSDS Date: 12062006

Page Number: 9 of 9

-PROP 65 (CARCINOGEN)

WARNING: This product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number	Percent
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*ETHYL BENZENE	100-41-4	<0.5
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-PROP 65 (TERATOGEN)

WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

Ingredient Name	CAS Number	Percent
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NONE

-PROP 65 (BOTH CARCINOGEN AND TERATOGEN)

WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

Ingredient Name	CAS Number	Percent
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NONE

Last Page