



## SAFETY DATA SHEET DPI-240 Purple FD Ink

### 1. Identification

#### Product identifier

**Product name** DPI-240 Purple FD Ink  
**Product number** 71001941, 71001942, 71001943, 71001945  
**Container size** 6 x 1 Liter, 4 x 4 Liter, 5 Gallon Pail

#### Recommended use of the chemical and restrictions on use

**Restriction on use** Printing ink.  
**Uses advised against** Use only for intended applications.

#### Details of the supplier of the safety data sheet

**Supplier** Matthews Marking Systems  
 3159 Unionville Road, Suite 500  
 Cranberry Township, PA 16066  
 412.665.2500  
 412.828.4545  
 info@matw.com

**Manufacturer** Matthews Marking Systems  
 Zona Franca La Lima  
 Multitenant #8  
 Cartago, Costa Rica 30106  
 (506) 4000-1103

#### Emergency telephone number

**Emergency telephone** Chemtrec US : 1-800-424-9300 Chemtrec World: 1-703-527-3887

### 2. Hazard identification

#### Classification of the substance or mixture

**Physical hazards** Flam. Liq. 2 - H225  
**Health hazards** Eye Dam. 1 - H318 Carc. 2 - H351 STOT SE 3 - H335  
**Environmental hazards** Not Classified

#### Label elements

##### Hazard pictograms



##### Signal word

Danger

##### Hazard statements

H225 Highly flammable liquid and vapour.  
 H318 Causes serious eye damage.  
 H351 Suspected of causing cancer.  
 H335 May cause respiratory irritation.

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<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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### 3. Composition/information on ingredients

#### Mixtures

<b>Methyl Ethyl Ketone</b>	<b>90-100%</b>
CAS number: 78-93-3	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
STOT SE 3 - H335	
<b>N-Propanol</b>	<b>1-&lt;5%</b>
CAS number: 71-23-8	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Eye Dam. 1 - H318	
STOT SE 3 - H336	
<b>Crystal Violet</b>	<b>&lt;1%</b>
CAS number: 548-62-9	
<b>Classification</b>	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
Carc. 2 - H351	

The full text for all hazard statements is displayed in Section 16.

<b>Composition comments</b>	This material does not contain any Hazardous Air Pollutants (HAPS) as defined by the Clean Air Act under the US Environmental Protection Agency (EPA).
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<b>Ingredient notes</b>	The exact percentage/concentration is withheld as a trade secret in accordance with the Regulations amending the Hazardous Products Regulations. The exact identity is withheld as a trade secret in accordance with 29 CFR 1910.1200.
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### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Consult a physician for specific advice. If medical advice is needed, have product container or label at hand. If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
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<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Consult a physician for specific advice.
<b>Ingestion</b>	Get medical attention immediately. Aspiration hazard if swallowed. Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing. Wash clothing and clean shoes thoroughly before reuse.
<b>Eye contact</b>	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

### Most important symptoms and effects, both acute and delayed

<b>General information</b>	The product is considered to be a low hazard under normal conditions of use. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. See Section 11 for additional information on health hazards.
<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system. Overexposure may depress the central nervous system, causing dizziness and intoxication.
<b>Ingestion</b>	This product is moderately irritating. May cause nausea, headache, dizziness and intoxication. May cause stomach pain or vomiting.
<b>Skin contact</b>	The product is considered to be a low hazard under normal conditions of use. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Eye contact</b>	This product is strongly irritating. Symptoms following overexposure may include the following: Severe irritation, burning, tearing and blurred vision. Prolonged contact causes serious eye and tissue damage.

### Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	None known.

### Specific hazards arising from the hazardous product

<b>Specific hazards</b>	Extremely flammable liquid and vapour. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).
<b>Advice for firefighters</b>	
<b>Protective actions during firefighting</b>	Evacuate area. Stop leak if safe to do so. Use water to keep fire exposed containers cool and disperse vapours. Use water spray to reduce vapours.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place.

#### Environmental precautions

**Environmental precautions** Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground. Use appropriate containment to avoid environmental contamination. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Eliminate all sources of ignition. Stop leak if safe to do so. Do not touch or walk into spilled material. Take care as floors and other surfaces may become slippery. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. When handling waste, the safety precautions applying to handling of the product should be considered. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Provide eyewash station and safety shower. Good personal hygiene procedures should be implemented. Wash skin thoroughly after handling. Wash contaminated clothing before reuse.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store at temperatures between 4.4°C/40°F and 32.2°C/90°F. Keep only in the original container in a cool, well-ventilated place. Protect from freezing and direct sunlight. Container must be kept tightly closed when not in use. Keep containers upright. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in accordance with national regulations.

**Storage class** Flammable liquid storage.

#### Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

##### **Methyl Ethyl Ketone**

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 590 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 300 ppm 885 mg/m<sup>3</sup>

##### **N-Propanol**

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Long-term exposure limit (8-hour TWA): ACGIH 100 ppm 246 mg/m<sup>3</sup>

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Use explosion-proof ventilating equipment.

#### Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

#### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Butyl rubber. Nitrile rubber. Rubber (natural, latex). Frequent changes are recommended.

#### Other skin and body protection

Avoid contact with skin. Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### Hygiene measures

Wash contaminated skin thoroughly after handling. Provide eyewash station and safety shower.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.

#### Thermal hazards

If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.

#### Environmental exposure controls

Keep container tightly sealed when not in use.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Coloured liquid.
Colour	Purple.
Odour	Alcoholic. Ketonic.
Melting point	-86°C/-123°F
Initial boiling point and range	79°C/147°F @ 760 mm Hg
Flash point	-9°C/16°F Closed cup.
Evaporation rate	3.7 (butyl acetate = 1)
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 14 % vol Lower flammable/explosive limit: 1.8 % vol
Vapour pressure	71.25 mm Hg @ 20°C/68°F
Vapour density	2.4

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<b>Relative density</b>	0.810 g/cc 810 g/l 6.75 lbs/gal
<b>Solubility(ies)</b>	Soluble in the following materials: Alcohols. Ketones. Slightly soluble in water.
<b>Partition coefficient</b>	log Pow: 0.26
<b>Auto-ignition temperature</b>	404°C/759°F
<b>Decomposition Temperature</b>	Not applicable.
<b>Viscosity</b>	<10 cP @ 25°C/77°F
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Not applicable.
<b>Comments</b>	Information given is applicable to the product as supplied. Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 791 g/l. This product contains a maximum VOC content of 6.59 lbs/gal.
<b>HAPS Content</b>	0.00

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Conditions to avoid</b>	Avoid the following conditions: Heat, sparks, flames.
<b>Materials to avoid</b>	Avoid contact with the following materials: Acids. Alkalis. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Heating may generate the following products: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).

### 11. Toxicological information

#### Information on toxicological effects

**Toxicological effects** Information given is based on data of the components and of similar products.

#### Specific target organ toxicity - single exposure

**Target organs** Central nervous system Eyes Gastro-intestinal tract Respiratory system, lungs Skin

#### Specific target organ toxicity - repeated exposure

**Target organs** Skin

#### Toxicological information on ingredients

#### Methyl Ethyl Ketone

##### Acute toxicity - inhalation

**Acute toxicity inhalation** 32,000.0  
(LC<sub>50</sub> vapours mg/l)

**ATE inhalation (vapours** 32,000.0  
**mg/l)**

##### Serious eye damage/irritation

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**Serious eye damage/irritation** Causes serious eye irritation.

### N-Propanol

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 9.9

**ATE inhalation (dusts/mists mg/l)** 9.9

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

#### Specific target organ toxicity - single exposure

**Target organs** Central nervous system

### Crystal Violet

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 420.0

**Species** Rat

**ATE oral (mg/kg)** 420.0

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes eye irritation.

## 12. Ecological information

### Ecological information on ingredients

#### Methyl Ethyl Ketone

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, : 1690 mg/l, Lepomis macrochirus (Bluegill)  
LC<sub>50</sub>, : 3220 mg/l, Pimephales promelas (Fat-head Minnow)

#### N-Propanol

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 804 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 96 hours: > 804 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 48 hours: >100 mg/l, Pseudokirchneriella subcapitata

#### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: >100 mg/l, Daphnia magna

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### Crystal Violet

#### Acute aquatic toxicity

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.35 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 0.42 mg/l, Scenedesmus subspicatus

#### Persistence and degradability

#### Ecological information on ingredients

### N-Propanol

**Persistence and degradability** The product is readily biodegradable.

**Biodegradation** Soil - Degradation 75%: 20 days

**Biological oxygen demand** <2000 mg O<sub>2</sub>/l

**Chemical oxygen demand** 0.071 g O<sub>2</sub>/g substance

#### Bioaccumulative potential

**Partition coefficient** log Pow: 0.26

### 13. Disposal considerations

#### Waste treatment methods

##### **General information**

The generation of waste should be minimized or avoided wherever possible. When handling waste, the safety precautions applying to handling of the product should be considered. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Dispose of waste product or used containers in accordance with local regulations. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

##### **Disposal methods**

Dispose of contents/container in accordance with national regulations. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered.

### 14. Transport information

#### UN number

**UN No. (TDG)** 1210

**UN No. (IMDG)** 1210

**UN No. (ICAO)** 1210

**UN No. (DOT)** 1210

#### UN proper shipping name

**Proper shipping name (TDG)** PRINTING INK

**Proper shipping name (IMDG)** PRINTING INK

**Proper shipping name (ICAO)** PRINTING INK

**Proper shipping name (DOT)** PRINTING INK



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### Transport hazard class(es)

TDG class	3
TDG label(s)	3
IMDG class	3
ICAO class/division	3

### Transport labels



### Packing group

TDG packing group	II
IMDG packing group	II
ICAO packing group	II
DOT packing group	II

### Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### Special precautions for user

EmS F-E, S-D

## 15. Regulatory information

### Inventories

#### EU - EINECS/ELINCS

All the ingredients are listed or exempt.

#### Canada – DSL/NDSL

All the ingredients are listed or exempt.

#### US - TSCA

All the ingredients are listed or exempt.

#### Australia - AICS

*Methyl Ethyl Ketone*

*N-Propanol*

*Crystal Violet*

#### Japan - ENCS

*Methyl Ethyl Ketone*

*N-Propanol*

*Crystal Violet*

#### Korea - KECI

*Methyl Ethyl Ketone*

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*N-Propanol*

*Crystal Violet*

### China - IECSC

*Methyl Ethyl Ketone*

*N-Propanol*

*Crystal Violet*

### Phillippines – PICCS

*Methyl Ethyl Ketone*

*N-Propanol*

*Crystal Violet*

### New Zealand - NZIOC

*Methyl Ethyl Ketone*

*N-Propanol*

*Crystal Violet*

### Taiwan - TCSI

*Methyl Ethyl Ketone*

*N-Propanol*

*Crystal Violet*

## 16. Other information

<b>Issued by</b>	Matthews Marking Systems - Chemical Services Department
<b>Revision date</b>	2020-04-18
<b>Revision</b>	5
<b>Supersedes date</b>	2019-03-18
<b>SDS number</b>	5024
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.