



SAFETY DATA SHEET DPI-240 Purple FD Ink

SECTION 1: Identification: Product identifier and chemical identity

Product identifier

Product name DPI-240 Purple FD Ink

Product No. 71001941, 71001942, 71001943, 71001945

Container size 6 x 1 Liter, 4 x 4 Liter, 5 Gallon Pail

Relevant identified uses of the substance or mixture and uses advised against

Application 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

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

Physical hazards Flam. Liq. 2 - H225

Health hazards Eye Dam. 1 - H318 STOT SE 3 - H336

Environmental hazards Not Classified

Label elements

Hazard pictograms



Signal word

DANGER

Hazard statements

H225 Highly flammable liquid and vapour.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

DPI-240 Purple FD Ink

| | |
|---------------------------------|--|
| Precautionary statements | <p>P210 Keep away from heat/ sparks/ open flames/ hot surfaces. - 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 CENTER or doctor/ physician 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> |
|---------------------------------|--|

SECTION 3: Composition and information on ingredients

Mixtures

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

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

| | |
|-----------------------------|---|
| Composition comments | This material does not contain any Hazardous Air Pollutants (HAPS) as defined by the Clean Air Act under the US Environmental Protection Agency (EPA). |
| Ingredient notes | The exact percentage/concentration is withheld as a trade secret in accordance with 29 CFR 1910.1200. The exact identity is withheld as a trade secret in accordance with 29 CFR 1910.1200. |

SECTION 4: First aid measures

Description of first aid measures

| | |
|----------------------------|---|
| General information | 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. |
| Inhalation | 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. |

DPI-240 Purple FD Ink

| | |
|---|--|
| Ingestion | 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. |
| Skin Contact | 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. |
| Eye contact | Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue. |
| <u>Most important symptoms and effects, both acute and delayed</u> | |
| General information | 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. |
| Inhalation | Gas or vapour in high concentrations may irritate the respiratory system. Overexposure may depress the central nervous system, causing dizziness and intoxication. |
| Ingestion | This product is moderately irritating. May cause nausea, headache, dizziness and intoxication. May cause stomach pain or vomiting. |
| Skin contact | 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. |
| Eye contact | 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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media None known.

Special hazards arising from the substance or mixture

Specific hazards 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.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO₂). Carbon monoxide (CO).

Advice for firefighters

Protective actions during firefighting 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.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Hazchem Code •3YE

SECTION 6: Accidental release measures

DPI-240 Purple FD Ink

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.

SECTION 7: Handling and storage, including how the chemical may be safely used

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.

SECTION 8: Exposure controls and personal protection

Control parameters

Occupational exposure limits

Methyl Ethyl Ketone

Long-term exposure limit (8-hour TWA): 150 ppm 445 mg/m³

Short-term exposure limit (15-minute): 300 ppm 890 mg/m³

N-Propanol

DPI-240 Purple FD Ink

Long-term exposure limit (8-hour TWA): 200 ppm 492 mg/m³

Short-term exposure limit (15-minute): 250 ppm 614 mg/m³

Sk

Sk = Absorption through the skin may be a significant source of exposure.

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.

SECTION 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) |
| Flammability Limit - Lower(%) | 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 |
| Relative density | 0.810 g/cc 810 g/l 6.75 lbs/gal |

DPI-240 Purple FD Ink

| | |
|----------------------------------|--|
| Solubility(ies) | Soluble in the following materials: Alcohols. Ketones. Slightly soluble in water. |
| Partition coefficient | log Pow: 0.26 |
| Auto-ignition temperature | 404°C/759°F |
| Decomposition Temperature | Not applicable. |
| Viscosity | <10 cP @ 25°C/77°F |
| Explosive properties | Not applicable. |
| Oxidising properties | Not applicable. |
| Comments | 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. |
| Volatile organic compound | This product contains a maximum VOC content of 791 g/l. This product contains a maximum VOC content of 6.59 lbs/gal. |
| HAPS Content | 0.00 |

SECTION 10: Stability and reactivity

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

SECTION 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
(LC₅₀ vapours mg/l)

ATE inhalation (vapours 32,000.0
mg/l)

Serious eye damage/irritation

DPI-240 Purple FD Ink

Serious eye damage/irritation Causes serious eye irritation.

N-Propanol

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ 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 (LD₅₀ mg/kg) 420.0

Species Rat

ATE oral (mg/kg) 420.0

Serious eye damage/irritation

Serious eye damage/irritation Causes eye irritation.

SECTION 12: Ecological information

Ecological information on ingredients.

Methyl Ethyl Ketone

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, : 1690 mg/l, Lepomis macrochirus (Bluegill)
LC₅₀, : 3220 mg/l, Pimephales promelas (Fat-head Minnow)

N-Propanol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 804 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates LC₅₀, 96 hours: > 804 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 48 hours: >100 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

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

DPI-240 Purple FD Ink

Crystal Violet

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.35 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 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 O₂/l

Chemical oxygen demand 0.071 g O₂/g substance

Bioaccumulative potential

Partition coefficient log Pow: 0.26

SECTION 13: Disposal considerations

Waste treatment methods

General information The generation of waste should be minimised 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.

SECTION 14: Transport information

UN number

UN No. (ADG) 1210

UN No. (IMDG) 1210

UN No. (ICAO) 1210

UN proper shipping name

Proper shipping name (ADG) PRINTING INK

Proper shipping name (IMDG) PRINTING INK

Proper shipping name (ICAO) PRINTING INK

Transport hazard class(es)

DPI-240 Purple FD Ink

| | |
|-------------------------|----|
| ADG class | 3 |
| ADG classification code | F1 |
| ADG label | 3 |
| IMDG class | 3 |
| ICAO class/division | 3 |

Transport labels



Packing group

| | |
|--------------------|----|
| ADG packing group | II |
| IMDG packing group | II |
| ICAO packing group | II |

Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

Special precautions for user

| | |
|--------------|----------|
| EmS | F-E, S-D |
| Hazchem Code | •3YE |

SECTION 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

The following ingredients are listed:

Methyl Ethyl Ketone

N-Propanol

Crystal Violet

Japan - ENCS

The following ingredients are listed:

Methyl Ethyl Ketone

N-Propanol

Crystal Violet

DPI-240 Purple FD Ink

Korea - KECI

The following ingredients are listed:

Methyl Ethyl Ketone

N-Propanol

Crystal Violet

China - IECSC

The following ingredients are listed:

Methyl Ethyl Ketone

N-Propanol

Crystal Violet

Philippines - PICCS

The following ingredients are listed:

Methyl Ethyl Ketone

N-Propanol

Crystal Violet

New Zealand - NZIOC

The following ingredients are listed:

Methyl Ethyl Ketone

N-Propanol

Crystal Violet

Taiwan - TCSI

The following ingredients are listed:

Methyl Ethyl Ketone

N-Propanol

Crystal Violet

SECTION 16: Any other relevant information

| | |
|----------------------------------|--|
| Issued by | Mathews Marking Systems - Chemical Services Department |
| Revision date | 18/04/2020 |
| Revision | 5 |
| Supersedes date | 18/03/2019 |
| SDS No. | 5024 |
| SDS status | Approved. |
| Hazard statements in full | H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye 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.