



## SAFETY DATA SHEET DPI-419 Special Red Ink

### SECTION 1: Identification: Product identifier and chemical identity

#### Product identifier

**Product name** DPI-419 Special Red Ink

**Product No.** 71002037, 71002039

**Container size** 6 x 1 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.

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<b>Precautionary statements</b>	<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>
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### SECTION 3: Composition and information on ingredients

#### Mixtures

<b>Ethyl acetate</b>	<b>50-&lt;80%</b>
CAS number: 141-78-6	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Eye Irrit. 2A - H319	
STOT SE 3 - H336	
<b>N-Propanol</b>	<b>30-&lt;50%</b>
CAS number: 71-23-8	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Eye Dam. 1 - H318	
STOT SE 3 - H336	
<b>Synthetic Organic Pink Colorant</b>	<b>5-&lt;10%</b>
CAS number: Proprietary	
<b>Classification</b>	
Eye Irrit. 2A - H319	

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).
<b>Ingredient notes</b>	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

<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.
<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. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person.

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<b>Skin Contact</b>	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash skin thoroughly 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.
<b><u>Most important symptoms and effects, both acute and delayed</u></b>	
<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. Vapours may cause drowsiness and dizziness.
<b>Ingestion</b>	Harmful if swallowed. May cause nausea, headache, dizziness and intoxication.
<b>Skin contact</b>	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Eye contact</b>	This product is moderately irritating. Symptoms following overexposure to vapour may include the following: Severe irritation, burning, tearing and blurred vision.

### **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**                      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 (CO<sub>2</sub>). 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**

#### **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**

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**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

##### **Ethyl acetate**

Long-term exposure limit (8-hour TWA): 200 ppm 720 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): 400 ppm 1440 mg/m<sup>3</sup>

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

Long-term exposure limit (8-hour TWA): 200 ppm 492 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): 250 ppm 614 mg/m<sup>3</sup>

Sk

##### **Synthetic Organic Pink Colorant**

Long-term exposure limit (8-hour TWA): WEL - Workplace Exposure Limit 15 mg/m<sup>3</sup>

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

### Exposure controls

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### 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	Fluorescent. Red.
Odour	Ester. Sweetish.
Melting point	-127°C/-196.6°F
Initial boiling point and range	78°C/172°F @ 760 mm Hg
Flash point	-4°C/24°F Closed cup.
Evaporation rate	4.1 (butyl acetate = 1)
Flammability Limit - Lower(%)	Upper flammable/explosive limit: 11 % vol Lower flammable/explosive limit: 2.2 % vol
Vapour pressure	86 mm Hg @ 20°C/68°F
Vapour density	2.1
Relative density	0.915 g/cc 915 g/l 7.63 lbs/gal
Solubility(ies)	Soluble in the following materials: Alcohols. Esters. Slightly soluble in water.
Partition coefficient	log Pow: 0.73
Auto-ignition temperature	413°C/775°F

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<b>Decomposition Temperature</b>	Not applicable.
<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 805 g/l. This product contains a maximum VOC content of 6.71 lbs/gal.
<b>HAPS Content</b>	0.00

### SECTION 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: Strong acids. Strong alkalis. Strong oxidising agents.
<b>Hazardous decomposition products</b>	Heating may generate the following products: Carbon dioxide (CO <sub>2</sub> ). 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** Eyes Respiratory system, lungs

#### Specific target organ toxicity - repeated exposure

**Target organs** Skin

#### Toxicological information on ingredients.

#### Ethyl acetate

##### Acute toxicity - inhalation

**Acute toxicity inhalation** 58.0  
(LC<sub>50</sub> vapours mg/l)

**ATE inhalation (vapours** 58.0  
**mg/l)**

##### Serious eye damage/irritation

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

#### Specific target organ toxicity - single exposure

**Target organs** Central nervous system

#### N-Propanol

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### 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

### Synthetic Organic Pink Colorant

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 23000 mg/kg, , Rat

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >10200 mg/kg, Dermal, Rat

#### Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LD<sub>50</sub> >3 mg/l, Inhalation, Rat

## SECTION 12: Ecological information

### Ecological information on ingredients.

#### Ethyl acetate

##### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 48 hours: 270 mg/l, Leuciscus idus (Golden orfe)  
LC<sub>50</sub>, 96 hours: 230 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 24 hours: 717 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 48 hours: 3300 mg/l, Freshwater algae

Acute toxicity - microorganisms EC<sub>50</sub>, 5 minutes: 1180 mg/l, Activated sludge  
EC<sub>50</sub>, 15 minutes: 1500 mg/l, Activated sludge  
EC<sub>50</sub>, 2 hours: 7400 mg/l, Activated sludge

#### 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

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

### 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: 0.73

#### Ecological information on ingredients.

#### Ethyl acetate

**Partition coefficient** Pow: 5.4 log Pow: 0.73

## 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)



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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:

*Ethyl acetate*

*N-Propanol*

#### Japan - ENCS

The following ingredients are listed:

*Ethyl acetate*

*N-Propanol*

#### Korea - KECI

The following ingredients are listed:

*Ethyl acetate*

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*N-Propanol*

### China - IECSC

The following ingredients are listed:

*Ethyl acetate*

*N-Propanol*

### Philippines - PICCS

The following ingredients are listed:

*Ethyl acetate*

*N-Propanol*

### New Zealand - NZIOC

The following ingredients are listed:

*Ethyl acetate*

*N-Propanol*

### Taiwan - TCSI

The following ingredients are listed:

*Ethyl acetate*

*N-Propanol*

### SECTION 16: Any other relevant information

<b>Issued by</b>	Matthews Marking Systems - Chemical Services Department
<b>Revision date</b>	2/03/2020
<b>Revision</b>	5
<b>Supersedes date</b>	11/04/2019
<b>SDS No.</b>	4795
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

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.