



## SAFETY DATA SHEET JAM5504 Red Ink

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name JAM5504 Red Ink  
 Product number 71002179  
 Container size 12 x 1 Liter

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Printing ink.  
 Uses advised against No specific uses advised against are identified.

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

Supplier Matthews Marking Systems  
 6515 Penn Avenue  
 Pittsburgh, PA 15206  
 412.665.2500  
 412.828.4545  
 info@matw.com

Manufacturer Matthews Marking Systems  
 101 Fairview Ave.  
 Pittsburgh, PA 15238

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

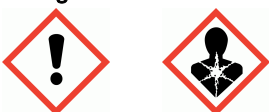
##### Classification

Physical hazards Not Classified  
 Health hazards STOT SE 3 - H336 STOT RE 1 - H372  
 Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) T; R48/23/24/25. R67

#### 2.2. Label elements

##### Pictogram



Signal word Danger

Hazard statements H336 May cause drowsiness or dizziness.  
 H372 Causes damage to organs through prolonged or repeated exposure.

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<b>Comments</b>	Full list of Hazard Statements is found in Sec. 16
<b>Precautionary statements</b>	<p>P260 Do not breathe vapour/spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 Call a POISON CENTER/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>
<b>Contains</b>	Dowanol DPM
<b>Supplementary precautionary statements</b>	<p>P261 Avoid breathing vapour/spray.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P405 Store locked up.</p>

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

<b>Dowanol DPM</b> <span style="float: right;"><b>60-100%</b></span>	
CAS number: 34590-94-8	
<b>Classification</b> STOT SE 3 - H336 STOT RE 1 - H372	<b>Classification (67/548/EEC or 1999/45/EC)</b> T+; R27. T; R48/23/24/25. R67
<b>Proprietary - Dye - Red</b> <span style="float: right;"><b>1-5%</b></span>	
CAS number: Proprietary                      EC number: Proprietary                      REACH registration number: Proprietary	
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn; R22. Xi; R36/38

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

<b>General information</b>	Consult a physician for specific advice. 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. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention immediately.
<b>Ingestion</b>	Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Never give anything by mouth to an unconscious person. Do not induce vomiting unless under the direction of medical personnel. Get medical attention if symptoms are severe or persist.
<b>Skin contact</b>	Take off contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing. Wash clothing and clean shoes thoroughly before reuse.

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<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>4.2. Most important symptoms and effects, both acute and delayed</b>	
<b>General information</b>	See Section 11 for additional information on health hazards.
<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system. May cause drowsiness or dizziness.
<b>Ingestion</b>	The product is considered to be a low hazard under normal conditions of use. May cause discomfort if swallowed. Prolonged or repeated exposure may cause the following adverse effects: Gastrointestinal symptoms, including upset stomach. Diarrhoea.
<b>Skin contact</b>	The product is considered to be a low hazard under normal conditions of use. May be slightly irritating to skin.
<b>Eye contact</b>	May irritate eyes.

### **4.3. Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**            Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

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

**Unsuitable extinguishing media**    None known.

### **5.2. Special hazards arising from the substance or mixture**

**Specific hazards**                    Combustible liquid. 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).

### **5.3. 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.

## **SECTION 6: Accidental release measures**

### **6.1. 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.

### **6.2. Environmental precautions**

**Environmental precautions**        Avoid release to the environment.

### **6.3. Methods and material for containment and cleaning up**

**Methods for cleaning up**            Eliminate all sources of ignition. Stop leak if safe to do so. Contain and absorb spillage with sand, earth or other non-combustible material. Dilute contained spill with water. Collect and place in suitable waste disposal containers and seal securely.

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### 6.4. 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

### 7.1. 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.

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

**Storage precautions** Keep only in the original container in a cool, well-ventilated place.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Dowanol DPM

Long-term exposure limit (8-hour TWA): WEL 50 ppm 307 mg/m<sup>3</sup> Austria  
 Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m<sup>3</sup> Belgium, European Union, France, Ireland, Italy, Latvia, Spain, United Kingdom  
 Long-term exposure limit (8-hour TWA): WEL 50 ppm 303 mg/m<sup>3</sup> Denmark  
 Long-term exposure limit (8-hour TWA): WEL 50 ppm 310 mg/m<sup>3</sup> Finland, Germany (AGS), Germany (DFG)  
 Long-term exposure limit (8-hour TWA): WEL 308 mg/m<sup>3</sup> Hungary  
 Long-term exposure limit (8-hour TWA): WEL 240 mg/m<sup>3</sup> Poland  
 Long-term exposure limit (8-hour TWA): WEL 50 ppm 300 mg/m<sup>3</sup> Sweden, Switzerland  
 Long-term exposure limit (8-hour TWA): WEL 300 mg/m<sup>3</sup> The Netherlands  
 Short-term exposure limit (15-minute): WEL 100 ppm 614 mg/m<sup>3</sup> Austria  
 Short-term exposure limit (15-minute): WEL 100 ppm 600 mg/m<sup>3</sup> Denmark  
 Short-term exposure limit (15-minute): WEL 50 ppm 310 mg/m<sup>3</sup> Germany (AGS), Germany (DFG)  
 Short-term exposure limit (15-minute): WEL 308 mg/m<sup>3</sup> Hungary  
 Short-term exposure limit (15-minute): WEL 280 mg/m<sup>3</sup> Poland  
 Short-term exposure limit (15-minute): WEL 75 ppm 450 mg/m<sup>3</sup> Sweden  
 Short-term exposure limit (15-minute): WEL 50 ppm 300 mg/m<sup>3</sup> Switzerland  
 Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

### 8.2. Exposure controls

#### Protective equipment



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<b>Appropriate engineering controls</b>	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.
<b>Eye/face protection</b>	Wear tight-fitting, chemical splash goggles or face shield.
<b>Hand protection</b>	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.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Hygiene measures</b>	Provide eyewash station and safety shower.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.
<b>Thermal hazards</b>	If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Coloured liquid.
<b>Colour</b>	Red.
<b>Odour</b>	Ether.
<b>Odour threshold</b>	Not available.
<b>pH</b>	pH (concentrated solution): 6.0 - 8.5
<b>Melting point</b>	-83°C/-117°F
<b>Initial boiling point and range</b>	189.6°C/373.3°F @ 760 mm Hg
<b>Flash point</b>	75°C/167°F CC (Closed cup).
<b>Evaporation rate</b>	0.03 (butyl acetate = 1)
<b>Upper/lower flammability or explosive limits</b>	Upper flammable/explosive limit: 14 % vol Lower flammable/explosive limit: 1.1 % vol
<b>Vapour pressure</b>	0.4 mm Hg @ 25°C/77°F
<b>Vapour density</b>	5.11
<b>Relative density</b>	0.960 g/cc 960 g/l 7.99 lbs/gal
<b>Solubility(ies)</b>	Soluble in the following materials: Ether. Completely soluble in water.
<b>Partition coefficient</b>	log Pow: 1.01
<b>Auto-ignition temperature</b>	207°C/405°F
<b>Decomposition Temperature</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.

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<b>Oxidising properties</b>	Not applicable.
<b>Comments</b>	Data based on literature. Product not tested. 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.

### 9.2. Other information

<b>Volatile organic compound</b>	This product contains a maximum VOC content of 905 g/l. This product contains a maximum VOC content of 7.54 lbs/gal.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	The following materials may react with the product: Acids. Alkalis. Strong oxidising agents.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid the following conditions: Heat, sparks, flames.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Avoid contact with the following materials: Acids. Alkalis. Strong oxidising agents.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Heating may generate the following products: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	Data based on literature. Product not tested.
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#### Acute toxicity - oral

<b>ATE oral (mg/kg)</b>	12,500.0
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#### Specific target organ toxicity - single exposure

<b>Target organs</b>	Central nervous system Eyes Respiratory system, lungs Skin
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#### Specific target organ toxicity - repeated exposure

<b>Target organs</b>	Kidneys
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#### Aspiration hazard

<b>Aspiration hazard</b>	Not anticipated to present an aspiration hazard, based on chemical structure.
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#### Toxicological information on ingredients.

### Dowanol DPM

#### Acute toxicity - oral

<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5,135.0
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<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	5,135.0

### Acute toxicity - dermal

<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	9,510.0
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<b>Species</b>	Rabbit
<b>ATE dermal (mg/kg)</b>	9,510.0

### Proprietary - Dye - Red

### Acute toxicity - oral

<b>ATE oral (mg/kg)</b>	500.0
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### Skin corrosion/irritation

<b>Animal data</b>	Not irritating.
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### Serious eye damage/irritation

<b>Serious eye damage/irritation</b>	Irritation of eyes is assumed.
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### Respiratory sensitisation

<b>Respiratory sensitisation</b>	No specific test data are available.
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## SECTION 12: Ecological Information

<b>Ecotoxicity</b>	Data based on literature. Product not tested.
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### Ecological information on ingredients.

### Proprietary - Dye - Red

<b>Ecotoxicity</b>	No data available.
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### 12.1. Toxicity

### Ecological information on ingredients.

### Dowanol DPM

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: >10,000 mg/l, Pimephales promelas (Fat-head Minnow)
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<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hours: 1,919 mg/l, Daphnia magna
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<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: > 969 mg/l, Selenastrum capricornutum
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### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

<b>Partition coefficient</b>	log Pow: 1.01
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### Ecological information on ingredients.

### Proprietary - Dye - Red

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**Bioaccumulative potential** : 10.2, Cyprinus carpio (Common carp)

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **General information**

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. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. When handling waste, the safety precautions applying to handling of the product should be considered.

## SECTION 14: Transport information

#### **General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

##### **Environmentally hazardous substance/marine pollutant**

No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### 15.2. Chemical safety assessment



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### 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 or exempt:

**Dowanol DPM**

**Proprietary - Dye - Red**

#### Japan - MITI

The following ingredients are listed or exempt:

**Dowanol DPM**

**Proprietary - Dye - Red**

#### Korea - KECI

The following ingredients are listed or exempt:

**Dowanol DPM**

**Proprietary - Dye - Red**

#### China - IECSC

The following ingredients are listed or exempt:

**Dowanol DPM**

**Proprietary - Dye - Red**

#### Philippines – PICCS

The following ingredients are listed or exempt:

**Dowanol DPM**

### SECTION 16: Other information

<b>General information</b>	Containers of this material may be hazardous when emptied, all hazard precautions given in the data sheet must be observed.
<b>Issued by</b>	Mathews Marking Systems - Chemical Services Department
<b>Revision date</b>	31/12/2015
<b>Revision</b>	2
<b>Supersedes date</b>	01/06/2015
<b>SDS number</b>	5345
<b>SDS status</b>	Approved.

## JAM5504 Red Ink

### Risk phrases in full

R10 Flammable.  
R11 Highly flammable.  
R20 Harmful by inhalation.  
R20/21 Harmful by inhalation and in contact with skin.  
R22 Harmful if swallowed.  
R27 Very toxic in contact with skin.  
R36/38 Irritating to eyes and skin.  
R38 Irritating to skin.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  
R65 Harmful: may cause lung damage if swallowed.  
R67 Vapours may cause drowsiness and dizziness.

### Hazard statements in full

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H372 Causes damage to organs (Kidneys) through prolonged or repeated exposure.

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.