



## SAFETY DATA SHEET JAM3001 Blue (WB) Ink

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

#### 1.1. Product identifier

Product name	JAM3001 Blue (WB) Ink
Product number	71000950, 71000951, 71000952, 71000953, 71000955
Container size	6 x 1 Liter, 2 x 4 Liter, 4 x 4 Liter, 5 Gallon Pail, 55 Gallon Drum

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

Identified uses	Printing ink.
Uses advised against	Use only for intended applications.

#### 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 Zona Franca La Lima Multitenant #8 Cartago, Costa Rica 30106 (506) 4000-1103

#### 1.4. Emergency telephone number

Emergency telephone	Chemtrec US : 1-800-424-9300 Chemtrec World: 1-703-527-3887
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### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards	Not Classified

Classification (67/548/EEC or 1999/45/EC) Xi; R36/37/38. R43

#### 2.2. Label elements

##### Hazard pictograms



Signal word	Warning
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<b>Hazard statements</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
<b>Precautionary statements</b>	P261 Avoid breathing vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	Glutaraldehyde
<b>Supplementary precautionary statements</b>	P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P302+P352 IF ON SKIN: Wash with plenty of water. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards

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

#### 3.2. Mixtures

<b>Blue Organic Dye Complex</b>			<b>5-&lt;10%</b>
CAS number: Proprietary	EC number: Proprietary	REACH registration number: Proprietary	
<b>Classification</b>			
Acute Tox. 4 - H302			
STOT RE 2 - H373			
<b>Ethoxylated Alcohol Surfactant</b>			<b>1-&lt;5%</b>
CAS number: Proprietary	EC number: Proprietary	REACH registration number: Proprietary	
<b>Classification</b>			
Skin Irrit. 2 - H315			
Eye Dam. 1 - H318			

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<b>Glutaraldehyde</b> <span style="float: right;"><b>&lt;1%</b></span> CAS number: 111-30-8 <span style="margin-left: 150px;">EC number: 203-856-5</span> M factor (Acute) = 1
<b>Classification</b> Acute Tox. 3 - H301 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Resp. Sens. 1 - H334 Skin Sens. 1A - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

The Full Text for all R-Phrases and Hazard Statements are 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.

### SECTION 4: First aid measures

#### 4.1. 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. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if symptoms are severe or persist. If in doubt, get medical attention promptly.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<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.

#### 4.2. 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>	May cause respiratory system irritation. May cause coughing and difficulties in breathing. Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	May cause discomfort if swallowed. Symptoms following overexposure may include the following: Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. Diarrhoea.

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<b>Skin contact</b>	May cause irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Eye contact</b>	May cause irritation. May cause discomfort. Symptoms following overexposure may include the following: Redness. Conjunctivitis, irritation, tearing.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## **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** The product is not flammable.

**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. Ensure procedures and training for emergency decontamination and disposal are in place.

### **6.2. 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.

### **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. 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.

### **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**

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### 7.1. Precautions for safe handling

<b>Usage precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
<b>Advice on general occupational hygiene</b>	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.

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

<b>Storage precautions</b>	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.
<b>Storage class</b>	Chemical storage.

### 7.3. Specific end use(s)

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
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## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **Blue Organic Dye Complex**

Long-term exposure limit (8-hour TWA): WEL 5.0 mg/m<sup>3</sup> fume

##### **Ethoxylated Alcohol Surfactant**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> particulate

##### **Glutaraldehyde**

Long-term exposure limit (8-hour TWA): WEL 0.05 ppm 0.2 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 0.05 ppm 0.2 mg/m<sup>3</sup>

Sen

WEL = Workplace Exposure Limit

Sen = Capable of causing occupational asthma.

<b>Ingredient comments</b>	Data based on literature. Product not tested.
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### 8.2. 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.

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<b>Other skin and body protection</b>	Avoid contact with skin. Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Hygiene measures</b>	Wash contaminated skin thoroughly after handling. 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.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Coloured liquid.
<b>Colour</b>	Blue.
<b>Odour</b>	Almost odourless.
<b>Melting point</b>	0°C/32°F
<b>Initial boiling point and range</b>	100°C/212°F @ 760 mm Hg
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	0.3 (butyl acetate = 1)
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapour pressure</b>	17.54 mm Hg @ 20°C/68°F
<b>Vapour density</b>	1.27
<b>Relative density</b>	1.013 g/cm <sup>3</sup> 1013 g/l 8.44 lbs/gal
<b>Solubility(ies)</b>	Completely soluble in water.
<b>Partition coefficient</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not applicable.
<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.

#### 9.2. Other information

<b>Volatile organic compound</b>	This product contains a maximum VOC content of 0 g/l. This product contains a maximum VOC content of 0 lbs/gal.
<b>HAPS Content</b>	0.00

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

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**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** The following materials may react with the product: Strong alkalis.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid the following conditions: Heat, sparks, flames. Freezing.

### 10.5. Incompatible materials

**Materials to avoid** Avoid contact with the following materials: Strong alkalis.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Heating may generate the following products: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

#### Acute toxicity - oral

**ATE oral (mg/kg)** 4,347.83

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 60,000.0

#### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 600.0

#### Specific target organ toxicity - single exposure

**Target organs** Eyes Gastro-intestinal tract Skin

#### Specific target organ toxicity - repeated exposure

**Target organs** Eyes Gastro-intestinal tract Kidneys Liver Skin

#### Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

### Toxicological information on ingredients.

#### Blue Organic Dye Complex

##### Acute toxicity - oral

**ATE oral (mg/kg)** 500.0

#### Ethoxylated Alcohol Surfactant

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 3,001.0

**Species** Rat

**ATE oral (mg/kg)** 3,001.0

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### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>) 2,001.0 mg/kg

Species Rabbit

ATE dermal (mg/kg) 2,001.0

### Skin corrosion/irritation

Skin corrosion/irritation May cause skin irritation.

### Serious eye damage/irritation

Serious eye damage/irritation Causes eye irritation.

### Glutaraldehyde

### Acute toxicity - oral

ATE oral (mg/kg) 100.0

### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 3.0

### Skin corrosion/irritation

Skin corrosion/irritation May cause serious chemical burns to the skin.

### Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

### Respiratory sensitisation

Respiratory sensitisation Sensitising.

### Skin sensitisation

Skin sensitisation Sensitising.

### Specific target organ toxicity - single exposure

STOT - single exposure A single exposure may cause the following adverse effects: Chronic inflammation of nose, throat and bronchial tubes. High concentrations may cause severe lung damage.

Target organs Respiratory tract

### Aspiration hazard

Aspiration hazard Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecological information on ingredients.

### Blue Organic Dye Complex

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 11800 mg/l,



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**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 169 mg/l, Freshwater algae

### Ethoxylated Alcohol Surfactant

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 3.5-4.9 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 3.1 mg/l, Daphnia magna

### Glutaraldehyde

#### Acute aquatic toxicity

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 64 mg/l, Cyprinodon variegatus (Sheepshead minnow)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 5.8 mg/l, Freshwater invertebrates

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 1.2 mg/l, Desmodesmus subspicatus

**Acute toxicity - microorganisms** EC<sub>50</sub>, : >50 mg/l, Activated sludge

**Acute toxicity - terrestrial** LC<sub>50</sub>, : 408-466 mg/kg, Anas Platyrhynchos (Mallard duck)

#### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.24 mg/l, Daphnia magna

### 12.2. Persistence and degradability

#### Ecological information on ingredients.

### Ethoxylated Alcohol Surfactant

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

**Biodegradation** Soil - Degradation >60%: 28 days

### Glutaraldehyde

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

### 12.3. Bioaccumulative potential

**Partition coefficient** Not applicable.

#### Ecological information on ingredients.

### Ethoxylated Alcohol Surfactant

**Bioaccumulative potential** BCF: 15-64, Fish

**Partition coefficient** log Pow: 3.3-4.4

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## Glutaraldehyde

**Bioaccumulative potential** Bioaccumulation is unlikely.

### 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**

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

#### **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 MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

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### 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).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

#### 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.

### SECTION 16: Other information

<b>Issued by</b>	Matthews Marking Systems - Chemical Services Department
<b>Revision date</b>	07/06/2017
<b>Revision</b>	3
<b>Supersedes date</b>	31/12/2015
<b>SDS number</b>	5404
<b>SDS status</b>	Approved.
<b>Risk phrases in full</b>	R23/25 Toxic by inhalation and if swallowed. R34 Causes burns. R36/37/38 Irritating to eyes, respiratory system and skin. R42/43 May cause sensitisation by inhalation and skin contact. R43 May cause sensitisation by skin contact. R50 Very toxic to aquatic organisms.
<b>Hazard statements in full</b>	H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H370 Causes damage to organs (Gastro-intestinal tract, Liver). H373 May cause damage to organs (Kidneys, Liver) 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.