



SAFETY DATA SHEET JAM3000 Black (WB) Ink

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

1.1. Product identifier

Product name JAM3000 Black (WB) Ink
Product number 71000943,71000942,71002814,71000948,71000945
Container size 2 x 4 Liter,4 x 4 Liter,5 Gallon Pail,6 x 1 Liter,55 Gallon Drum

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 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Elicitation - EUH208 Skin Sens. 1 - H317
Environmental hazards Not Classified

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

2.2. Label elements

Pictogram



Signal word Warning

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| | |
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| Hazard statements | H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. |
| Comments | Full list of Hazard Statements is found in Sec. 16 |
| Precautionary statements | 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. |
| Contains | Glutaraldehyde |
| Supplementary precautionary statements | 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

| | |
|------------------------|----------------------|
| Glutaraldehyde | <1% |
| CAS number: 111-30-8 | EC number: 203-856-5 |
| M factor (Acute) = 1 | |
| Classification | |
| Acute Tox. 3 - H301 | |
| Acute Tox. 4 - H312 | |
| Acute Tox. 3 - H331 | |
| Skin Corr. 1B - H314 | |
| Eye Dam. 1 - H318 | |
| Resp. Sens. 1 - H334 | |
| Skin Sens. 1 - H317 | |
| Aquatic Acute 1 - H400 | |

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

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|----------------------------|--|
| General information | Consult a physician for specific advice. 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. 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. |
| Ingestion | Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention immediately. |

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| | |
|-----------------------------------|---|
| Skin contact | 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. |
| 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. |

4.2. Most important symptoms and effects, both acute and delayed

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| General information | See Section 11 for additional information on health hazards. |
| Inhalation | May cause respiratory system irritation. May cause coughing and difficulties in breathing. Vapours may cause headache, fatigue, dizziness and nausea. |
| Ingestion | May cause discomfort if swallowed. Symptoms following overexposure may include the following: Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. Diarrhoea. |
| Skin contact | May cause irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. |
| Eye contact | 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

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| Notes for the doctor | Treat symptomatically. |
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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| 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

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|--------------------------------------|---|
| Specific hazards | The product is not flammable. |
| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO ₂). Carbon monoxide (CO). |

5.3. Advice for firefighters

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|--|--|
| 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

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| 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. |
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6.2. Environmental precautions

| | |
|----------------------------------|-----------------------------------|
| Environmental precautions | Avoid release to the environment. |
|----------------------------------|-----------------------------------|

6.3. Methods and material for containment and cleaning up

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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.

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 Chemical 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

Glutaraldehyde

Long-term exposure limit (8-hour TWA): WEL 0.1 ppm 0.4 mg/m³ Austria, France
 Long-term exposure limit (8-hour TWA): WEL 0.2 ppm 0.8 mg/m³ Denmark
 Long-term exposure limit (8-hour TWA): WEL 0.05 ppm 0.2 mg/m³ Germany (AGS), Switzerland, United Kingdom
 Long-term exposure limit (8-hour TWA): WEL 0.05 ppm 0.24 mg/m³ Germany (DFG)
 Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ Latvia
 Long-term exposure limit (8-hour TWA): WEL 0.4 mg/m³ Poland
 Short-term exposure limit (15-minute): WEL 0.05 ppm 0.2 mg/m³ Belgium, Ireland, Spain, United Kingdom
 Short-term exposure limit (15-minute): WEL 0.2 ppm 0.8 mg/m³ Denmark, France
 Short-term exposure limit (15-minute): WEL 0.1 ppm 0.42 mg/m³ Finland, Switzerland
 Short-term exposure limit (15-minute): WEL 0.1 ppm 0.4 mg/m³ Germany (AGS), Sweden
 Short-term exposure limit (15-minute): WEL 0.1 ppm 0.48 mg/m³ Germany (DFG)
 Short-term exposure limit (15-minute): WEL 0.6 mg/m³ Poland
 Sen

WEL = Workplace Exposure Limit

Sen = Capable of causing occupational asthma.

8.2. Exposure controls

Protective equipment



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|---|---|
| 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 | Wear appropriate clothing to prevent repeated or prolonged skin contact. |
| Hygiene measures | 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. 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

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|---|---------------------------------------|
| Appearance | Coloured liquid. |
| Colour | Black. |
| Odour | Almost odourless. |
| Odour threshold | Not available. |
| pH | pH (concentrated solution): 6.0 - 8.5 |
| Melting point | 0°C/32°F |
| Initial boiling point and range | 100°C/212°F @ 760 mm Hg |
| Flash point | Not applicable. |
| Evaporation rate | 0.3 (butyl acetate = 1) |
| Upper/lower flammability or explosive limits | Not applicable. |
| Vapour pressure | 17.54 mm Hg @ 20°C/68°F |
| Vapour density | 1.27 |
| Relative density | 1.013 g/cc 1013 g/l 8.44 lbs/gal |
| Solubility(ies) | Completely soluble in water. |
| Partition coefficient | Not applicable. |
| Auto-ignition temperature | Not applicable. |
| Decomposition Temperature | Not applicable. |
| Explosive properties | Not applicable. |

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| | |
|-----------------------------|--|
| Oxidising properties | Not applicable. |
| Comments | 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

| | |
|----------------------------------|---|
| Volatile organic compound | This product contains a maximum VOC content of 0 g/l. |
|----------------------------------|---|

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|-------------------|---|
| Reactivity | There are no known reactivity hazards associated with this product. |
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10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

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|----------------------------|---|
| 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

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|---|---|
| Hazardous decomposition products | Heating may generate the following products: Carbon dioxide (CO ₂). Carbon monoxide (CO). |
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

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|------------------------------|---|
| Toxicological effects | Data based on literature. Product not tested. |
|------------------------------|---|

Acute toxicity - oral

| | |
|-------------------------|----------|
| ATE oral (mg/kg) | 20,000.0 |
|-------------------------|----------|

Acute toxicity - inhalation

| | |
|--------------------------------------|-------|
| ATE inhalation (vapours mg/l) | 600.0 |
|--------------------------------------|-------|

Specific target organ toxicity - single exposure

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|----------------------|-----------------------------------|
| 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.

Glutaraldehyde

Acute toxicity - oral

| | |
|-------------------------|-------|
| ATE oral (mg/kg) | 100.0 |
|-------------------------|-------|

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Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 3.0

SECTION 12: Ecological Information

Ecotoxicity Data based on literature. Product not tested.

12.1. Toxicity

Ecological information on ingredients.

Glutaraldehyde

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Partition coefficient Not applicable.

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

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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 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

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

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:

Japan - MITI

The following ingredients are listed or exempt:

Korea - KECI

The following ingredients are listed or exempt:

China - IECSC

The following ingredients are listed or exempt:

Philippines – PICCS

The following ingredients are listed or exempt:

SECTION 16: Other information

General information Containers of this material may be hazardous when emptied, all hazard precautions given in the data sheet must be observed.

Issued by Matthews Marking Systems - Chemical Services Department

Revision date 31/12/2015

Revision 2

JAM3000 Black (WB) Ink

| | |
|----------------------------------|--|
| Supersedes date | 01/06/2015 |
| SDS number | 4891 |
| SDS status | Approved. |
| Risk phrases in full | R11 Highly flammable. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R23/25 Toxic by inhalation and if swallowed. R34 Causes burns. R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R42/43 May cause sensitisation by inhalation and skin contact. R50 Very toxic to aquatic organisms. |
| Hazard statements in full | EUH208 Contains Glutaraldehyde. May produce an allergic reaction. H301 Toxic if swallowed. H312 Harmful 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. H400 Very toxic to aquatic life. |

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.