



SAFETY DATA SHEET

JAM6801 White Ink

1. Identification

Product identifier

Product name JAM6801 White Ink

Product number 71001889, 71001890, 71001891, 71001892, 71001894, 71001895

Container size 6 x 1 Liter, 2 x 4 Liter, 4 x 4 Liter, 5 Gallon Pail

Recommended use of the chemical and restrictions on use

Restriction on use 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

2. Hazard identification

Classification of the substance or mixture

Physical hazards Flam. Liq. 2 - H225

Health hazards Eye Irrit. 2 - H319 Carc. 2 - H351 STOT SE 3 - H335

Environmental hazards Not Classified

Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.

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Precautionary statements	<p>P201 Obtain special instructions before use.</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 CENTRE/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>
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Contains Methyl Ethyl Ketone , Isophorone

3. Composition/information on ingredients

Mixtures

Methyl Ethyl Ketone	80-<90%
CAS number: 78-93-3	
Classification	
Flam. Liq. 2 - H225	
Eye Irrit. 2 - H319	
STOT SE 3 - H335	
Titanium Dioxide	5-<10%
CAS number: —	
Classification	
Combustible Dusts - Category 1	
Isophorone	1-<5%
CAS number: 78-59-1	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Eye Irrit. 2 - H319	
Carc. 2 - H351	
STOT SE 3 - H335	

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

Composition comments This material does contain Hazardous Air Pollutants (HAPS) as defined by the Clean Air Act under the US Environmental Protection Agency (EPA). See Sections 9 and 15 for further details.

Ingredient notes The exact percentage/concentration is withheld as a trade secret in accordance with the Regulations amending the Hazardous Products Regulations. The exact identity is withheld as a trade secret in accordance with 29 CFR 1910.1200.

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.

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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.
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	May cause sensitization by inhalation. Vapour may affect central nervous system. May cause drowsiness or dizziness.
Ingestion	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.
<u>Indication of any immediate medical attention and special treatment needed</u>	
Notes for the doctor	Treat symptomatically.
5. Fire-fighting measures	
<u>Extinguishing media</u>	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<u>Specific hazards arising from the hazardous product</u>	
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 ₂). Carbon monoxide (CO).
<u>Advice for firefighters</u>	
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.
6. Accidental release measures	

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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.

7. Handling and storage

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.

8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

Methyl Ethyl Ketone

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 590 mg/m³

Short-term exposure limit (15-minute): ACGIH 300 ppm 885 mg/m³

Titanium Dioxide

Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust

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Isophorone

Ceiling exposure limit: ACGIH 5 ppm 28 mg/m³

A3

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Coloured liquid.
Colour	White.
Odour	Ketonic.
Melting point	-70°C/-94°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)
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 11.5 % vol Lower flammable/explosive limit: 0.8 % vol
Vapour pressure	71.25 mm Hg @ 20°C/68°F

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Vapour density	2.4
Relative density	0.872 g/cc 872 g/l 7.27 lbs/gal
Solubility(ies)	Soluble in the following materials: Ketones. Slightly soluble in water.
Partition coefficient	log Pow: 0.26
Auto-ignition temperature	404°C/759°F
Decomposition Temperature	Not applicable.
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 766 g/l. This product contains a maximum VOC content of 6.83 lbs/gal.
HAPS Content	4.00

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 oxidizing agents.
Hazardous decomposition products	Heating may generate the following products: Carbon dioxide (CO ₂). Carbon monoxide (CO).

11. Toxicological information

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) 12,500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 27,500.0

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 Central nervous system Skin

Toxicological information on ingredients

Methyl Ethyl Ketone

Acute toxicity - inhalation

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Acute toxicity inhalation 32,000.0
(LC₅₀ vapours mg/l)

ATE inhalation (vapours 32,000.0
mg/l)

Serious eye damage/irritation

Serious eye Causes serious eye irritation.
damage/irritation

Titanium Dioxide

Carcinogenicity

Carcinogenicity Assessment of carcinogenicity: May cause cancer by inhalation. Contains a compound classified as IARC Group 2B (possibly carcinogenic to humans). The product has not been tested. The statement has been derived from the properties of the individual components. Information on: Titanium dioxide Assessment of carcinogenicity: IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term studies in rats in which the substance was given by inhalation, a carcinogenic effect was observed. Tumors were only observed in rats after chronic inhalative exposure to high concentrations which caused sustained lung inflammation. In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. Dermal exposure is not expected to be carcinogenic.

Isophorone

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation 7.0
(LC₅₀ dust/mist mg/l)

ATE inhalation 7.0
(dusts/mists mg/l)

Serious eye damage/irritation

Serious eye Causes serious eye irritation.
damage/irritation

Carcinogenicity

Carcinogenicity Known carcinogen based on animal evidence.

Specific target organ toxicity - single exposure

Target organs Respiratory tract

Specific target organ toxicity - repeated exposure

Target organs Kidneys

Aspiration hazard

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

12. Ecological information

Ecological information on ingredients

Titanium Dioxide

Ecotoxicity No information available.

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)

Isophorone

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 145 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 120 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 126 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms IC₅₀, 16 hours: 500-1000 mg/l, Activated sludge

Persistence and degradability

Ecological information on ingredients

Isophorone

Persistence and degradability The product is readily biodegradable.

Biodegradation Soil - Degradation 95%: 28 days

Biological oxygen demand 2.78 g O₂/g substance

Bioaccumulative potential

Partition coefficient log Pow: 0.26

Ecological information on ingredients

Isophorone

Bioaccumulative potential BCF: 7, Fish

Partition coefficient log Pow: 1.67-1.70

13. Disposal considerations

Waste treatment methods

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General information

The generation of waste should be minimized 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.

14. Transport information

UN number

UN No. (TDG)	1210
UN No. (IMDG)	1210
UN No. (ICAO)	1210
UN No. (DOT)	1210

UN proper shipping name

Proper shipping name (TDG)	PRINTING INK
Proper shipping name (IMDG)	PRINTING INK
Proper shipping name (ICAO)	PRINTING INK
Proper shipping name (DOT)	PRINTING INK

Transport hazard class(es)

TDG class	3
TDG label(s)	3
IMDG class	3
ICAO class/division	3

Transport labels



Packing group

TDG packing group	II
IMDG packing group	II
ICAO packing group	II
DOT packing group	II

Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

Special precautions for user

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EmS

F-E, S-D

15. Regulatory information

Hazardous Air Pollutants Content Contains - Isophorone

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

Methyl Ethyl Ketone

Isophorone

Japan - ENCS

Methyl Ethyl Ketone

Isophorone

Korea - KECI

Methyl Ethyl Ketone

Isophorone

China - IECSC

Methyl Ethyl Ketone

Isophorone

Phillippines – PICCS

Methyl Ethyl Ketone

Isophorone

New Zealand - NZIOC

Methyl Ethyl Ketone

Isophorone

Taiwan - TCSI

Methyl Ethyl Ketone

Isophorone

16. Other information

Issued by Matthews Marking Systems - Chemical Services Department

Revision date 2020-04-01

JAM6801 White Ink

Revision	5
Supersedes date	2020-04-01
SDS number	5008
SDS status	Approved.
Hazard statements in full	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H351 Suspected of causing cancer. May form combustible dust concentrations in air.

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.